



PROGRESS ON SANITATION AND DRINKING-WATER

2010 UPDATE

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2010 UPDATE



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INTRODUCTION

This report by the WHO/UNICEF Joint Monitoring Programme for Water Supply and Sanitation (JMP) confirms that advances continue to be made towards greater access to safe drinking-water. Progress in relation to access to basic sanitation is however insufficient to achieve the Millennium Development Goal (MDG) target to halve, by 2015, the proportion of people without sustainable access to safe drinking-water and basic sanitation.

PURPOSE AND SCOPE OF THIS REPORT

This report describes the status and trends with respect to the use of safe drinking-water and basic sanitation, and progress made towards the MDG drinking-water and sanitation target.

As the world approaches 2015, it becomes increasingly important to identify who are being left behind and to focus on the challenges of addressing their needs. This report presents some striking disparities: the gap between progress in providing access to drinking-water versus sanitation; the divide between urban and rural populations in terms of the services provided; differences in the way different regions are performing, bearing in mind that they started from different baselines; and disparities between different socioeconomic strata in society.

Each JMP report assesses the situation and trends anew and so this JMP report supersedes previous reports. The information presented in this report includes data from household surveys and censuses completed during the period 2007-2008. It also incorporates datasets from earlier surveys and censuses that have become available to JMP since the publication of the previous JMP report in 2008. In total, data from around 300 surveys and censuses covering the period 1985 - 2008, has been added to the JMP database.

The updated estimates for 2008, 2000 and 1990 are given in the statistical table starting on page 38. This table for the first time shows the number of people who gained access to improved sanitation and drinking-water sources in the period 1990-2008.

It is important to note that the data in this report do not yet reflect the efforts of the International Year of Sanitation 2008, which mobilized renewed support around the world to stop the practice of open defecation and to promote the use of latrines and toilets.

A NEW STRATEGY FOR JMP

A new JMP strategy was formulated by WHO and UNICEF, with support from a newly created Strategic Advisory Group to better position JMP to address the monitoring challenges in the run up to the MDG target year of 2015 and beyond.

The JMP vision contained in this strategy is to accelerate progress towards universal sustainable access to safe water and basic sanitation by 2025, including the achievement of the MDG target by 2015 as a key milestone.

The four strategic priority areas of activity proposed for the 2010-2015 period are:

- maintaining the integrity of the JMP database and ensuring accurate global estimates;
- disseminating data to stakeholders;
- fulfilling JMP's normative role in developing and validating target indicators;
- enhancing interaction between countries and JMP.

With this strategy, JMP is well placed to provide a platform for developing post-2015 targets and associated meaningful and measurable indicators.

FUTURE CHALLENGES

We all recognize the vital importance of sanitation and water to human health and well-being, and their role as an engine of development. The question is how to accelerate progress towards achieving the MDG target, and how to go beyond it in order to ultimately achieve the vision of universal access.

The estimates that JMP publishes every two years help policy-makers, donors, governmental and nongovernmental agencies decide what needs to be done and where to focus their efforts. With each successive report, a clearer picture emerges of the current use of improved sanitation facilities and improved sources of drinking-water throughout the world.

Data collection and analysis are, however, not ends in themselves. The estimates and trends must be an impetus for action. With this in mind, JMP constantly seeks to provide more accurate and detailed information, to see where there is most catching-up to be done, where there are vulnerabilities, or where progress is starting to falter.

Better decision-making to speed progress requires a greater disaggregation and a higher resolution in the datasets. JMP faces methodological challenges of analysing data from over 200 different countries and territories, of adhering to common indicators so that estimates are comparable globally, and of accommodating new or previously unavailable data.

The present report documents how much the world has changed in terms of the use of improved sanitation facilities and improved sources of drinking-water. The practice of open defecation is declining, but still too many people have no access to any kind of sanitation facilities. Piped water is reaching ever more households, but not yet all and often not reliably so. The challenge of assessing the safety of drinking-water from improved sources also needs to be addressed.







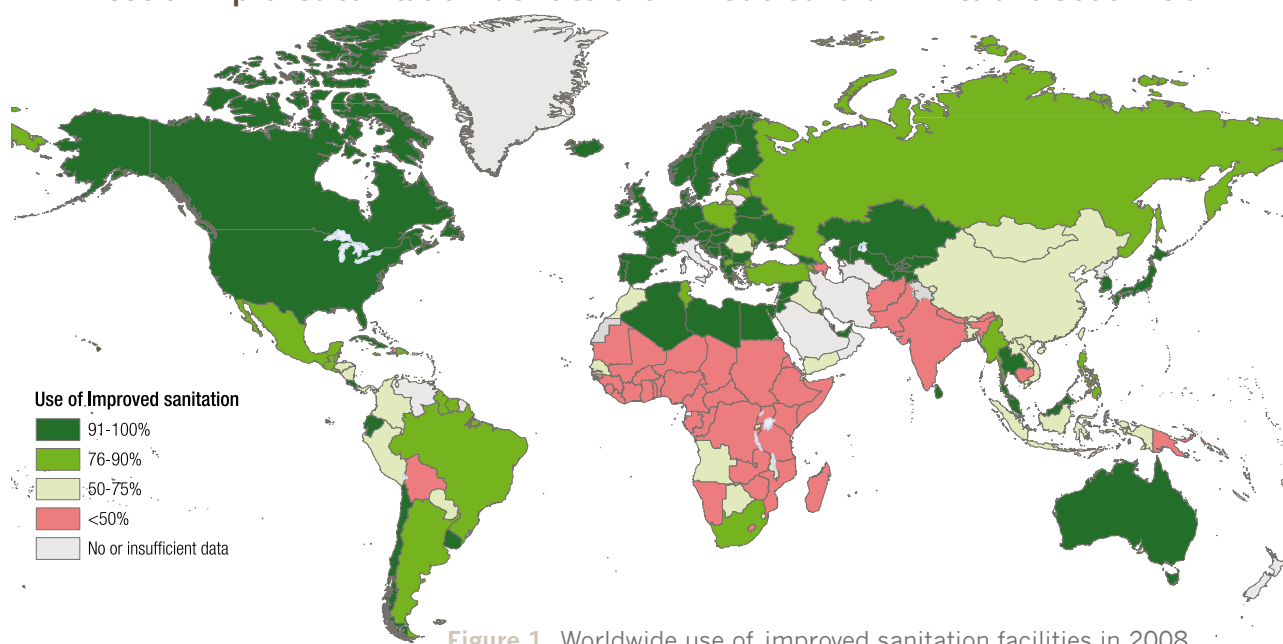
STATUS AND PROGRESS TOWARDS THE MDG TARGET

BILLIONS WITHOUT IMPROVED SANITATION

2.6 BILLION PEOPLE DO NOT USE IMPROVED SANITATION

Improved sanitation facilities are used by less than two thirds of the world population. The global picture masks great disparities between regions. Virtually the entire population of the developed regions uses improved facilities, but in developing regions only around half the population uses improved sanitation. There are also disparities in progress since 1990. Notable increases in the use of improved sanitation have been made in Northern Africa, South-eastern Asia and Eastern Asia, whereas there has been no progress in the Commonwealth of Independent States and a decline in Oceania. Among the 2.6 billion people in the world who do not use improved sanitation facilities, by far the greatest number are in Southern Asia, but there are also large numbers in Eastern Asia and Sub-Saharan Africa.

Use of improved sanitation facilities is low in Sub-Saharan Africa and South Asia



61% of global population uses improved sanitation facilities

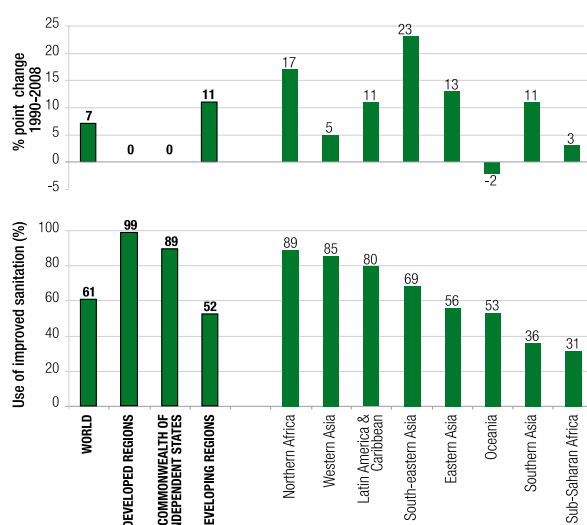


Figure 2 Regional use of improved sanitation facilities in 2008 and percentage point change 1990-2008

2.6 billion people – 72% of whom live in Asia – do not use improved sanitation facilities

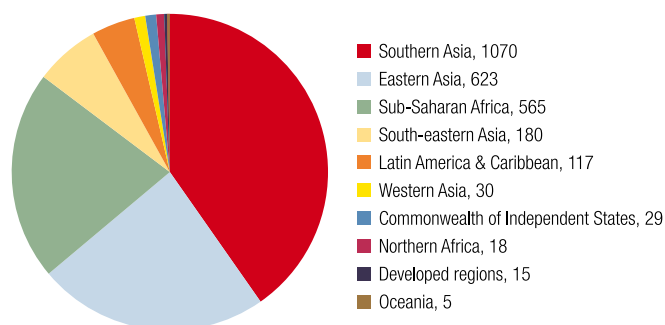


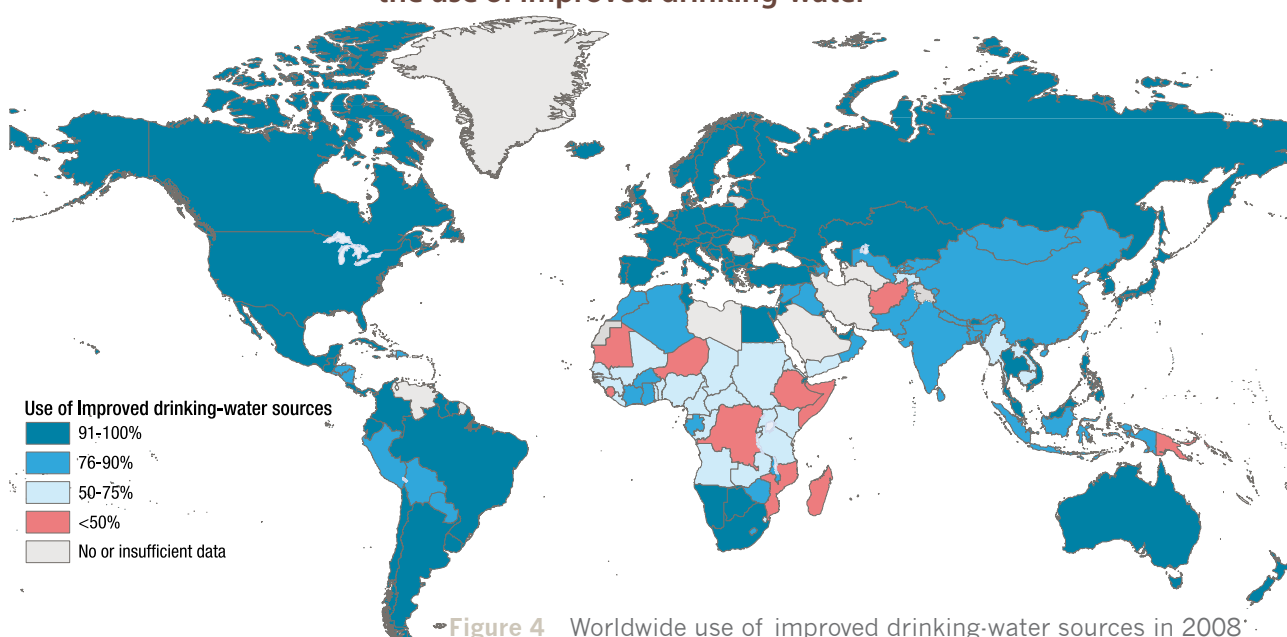
Figure 3 Regional distribution of the 2.6 billion people not using improved sanitation facilities in 2008, population (million)

MILLIONS WITHOUT IMPROVED SOURCES OF DRINKING-WATER

884 MILLION PEOPLE DO NOT USE IMPROVED SOURCES OF DRINKING-WATER

The use of improved sources of drinking-water is high globally, with 87% of the world population and 84% of the people in developing regions getting their drinking-water from such sources. Even so, 884 million people in the world still do not get their drinking-water from improved sources, almost all of them in developing regions. Sub-Saharan Africa accounts for over a third of that number, and is lagging behind in progress towards the MDG target, with only 60% of the population using improved sources of drinking-water despite an increase of 11 percentage points since 1990.

Sub-Saharan Africa faces the greatest challenge in increasing the use of improved drinking-water



87% of global population uses improved drinking-water sources, an increase of 10% point in 18 years

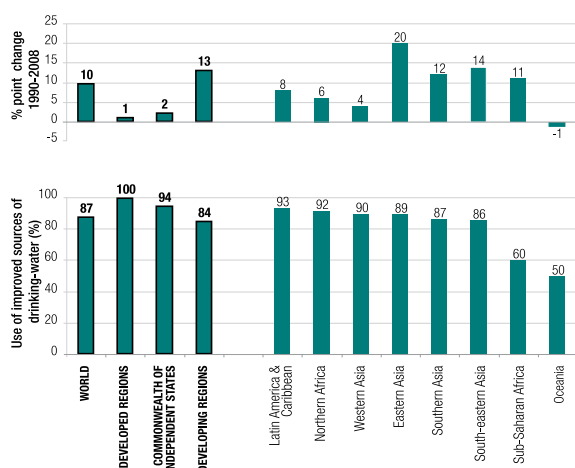


Figure 5 Regional use of improved drinking-water in 2008 and percentage point change 1990-2008

884 million people – 37% of whom live in Sub-Saharan Africa – still use unimproved sources for drinking-water

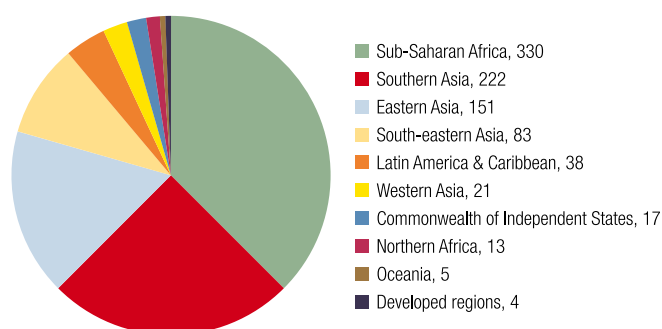


Figure 6 Regional distribution of the 884 million people not using improved drinking-water sources in 2008, population (million)

SANITATION: WORLD OFF TRACK FOR MDG TARGET

At the current rate of progress, the world will miss the MDG target by 13 percentage points. Unless huge efforts are made, the proportion of people without access to basic sanitation will not be halved by 2015. Even if we meet the MDG target, there will still be 1.7 billion people without access to basic sanitation. If the trend remains as currently projected, an additional billion people who should have benefited from MDG progress will miss out, and by 2015 there will be 2.7 billion people without access to basic sanitation.



Figure 7 Global progress towards the MDG target: trend in use of improved sanitation 1990-2008, projected to 2015

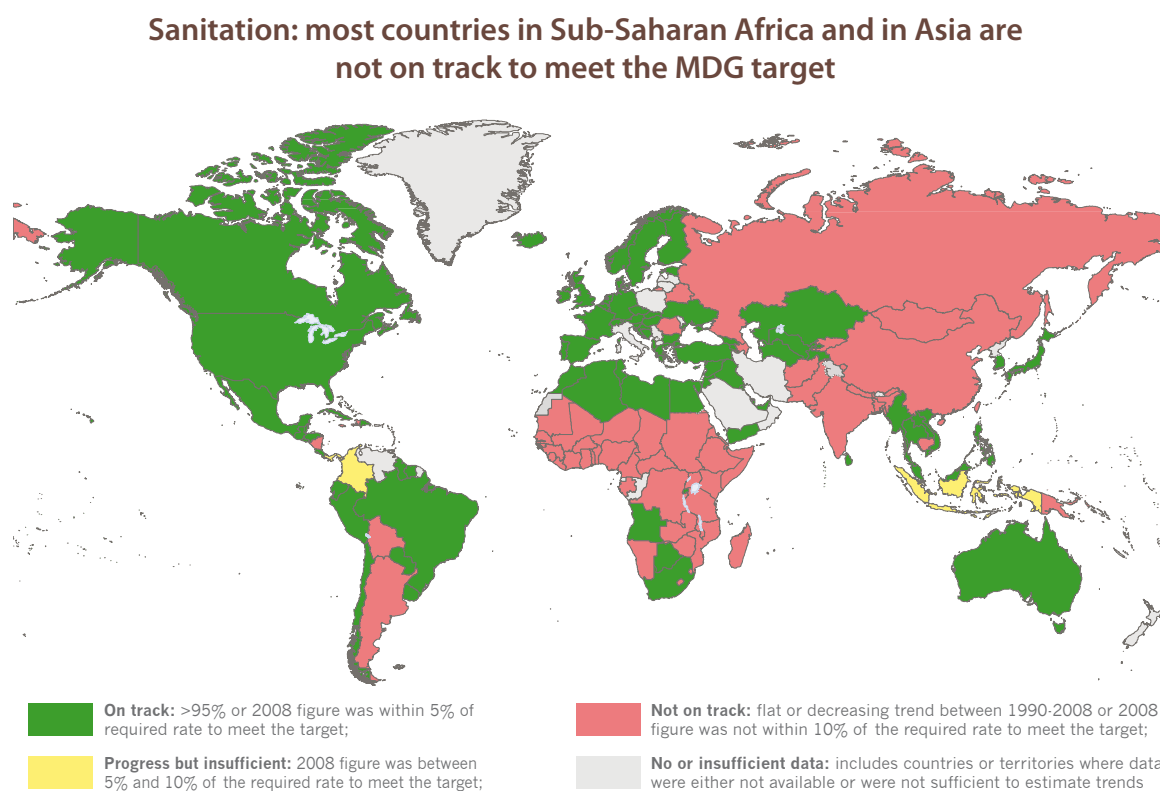


Figure 8 Sanitation: Progress towards the MDG target, 2008

DRINKING-WATER: WORLD ON TRACK FOR MDG TARGET

At the current rate of progress, the world is expected to exceed the MDG target of halving the proportion of the population without sustainable access to safe drinking-water. Even so, 672 million people will still lack access to improved drinking-water sources in 2015. For monitoring purposes, the use of improved drinking-water sources has been equated to access to safe drinking-water, but not all improved sources in actual fact provide drinking-water that is safe. The challenge of measuring water quality is addressed on page 31.

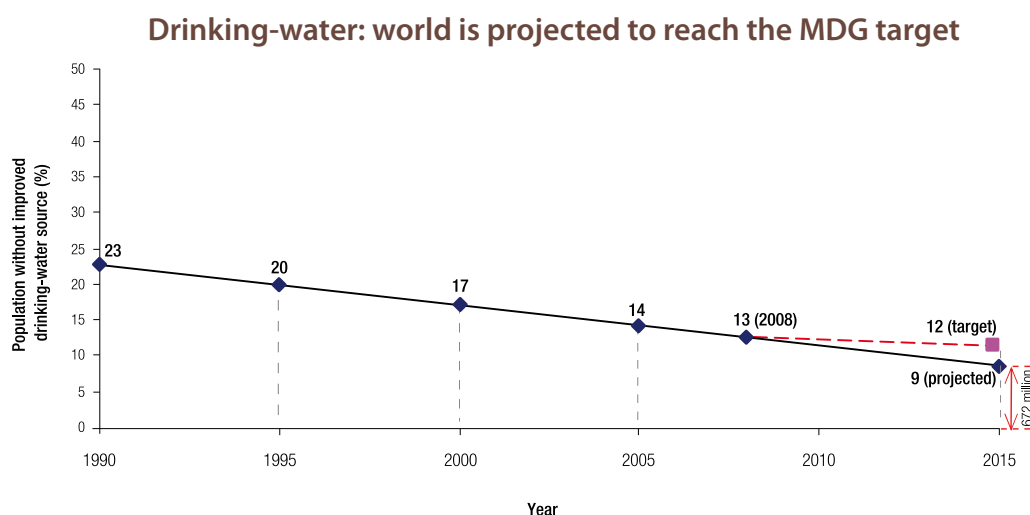


Figure 9 Global progress towards the MDG target: trend in use of improved drinking-water sources 1990-2008, projected to 2015

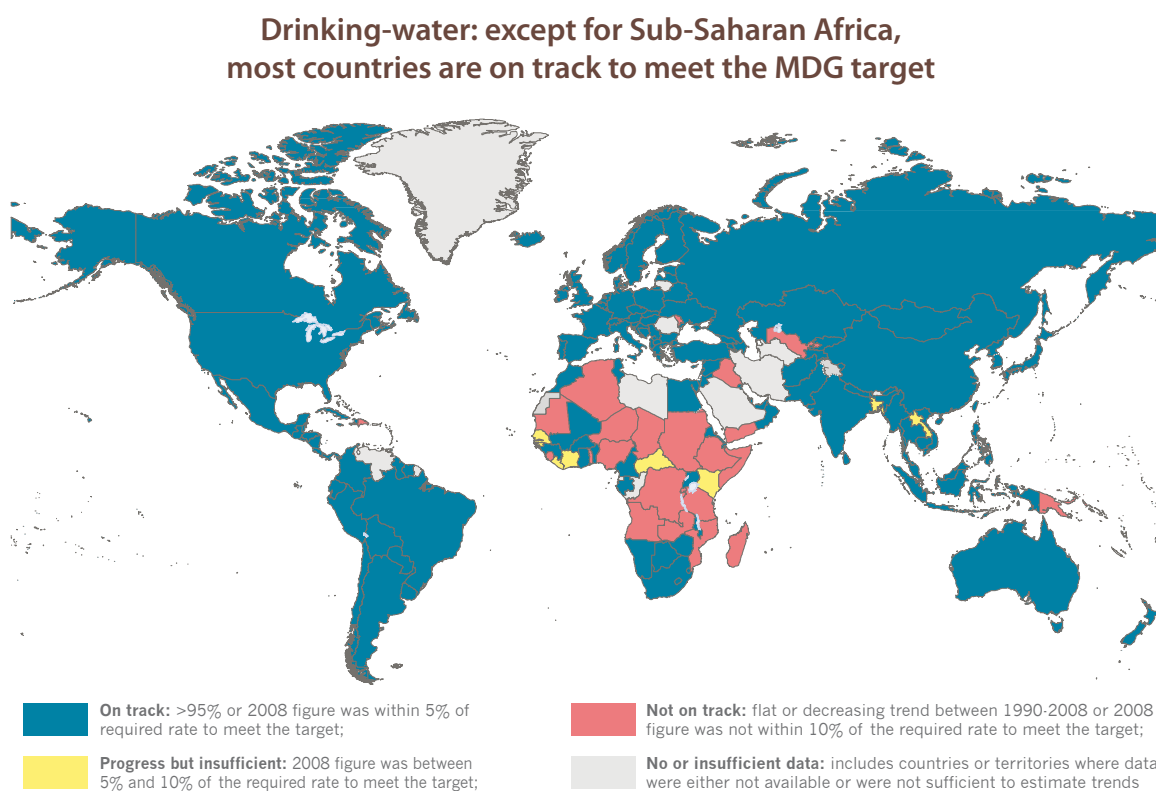


Figure 10 Drinking-water: progress towards the MDG target, 2008

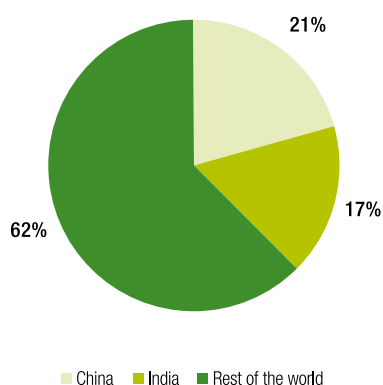
CHALLENGE: GLOBAL TREND HEAVILY INFLUENCED BY PROGRESS IN LARGE POPULOUS COUNTRIES

Global estimates of access and use hinge significantly on progress made in large, populous countries.

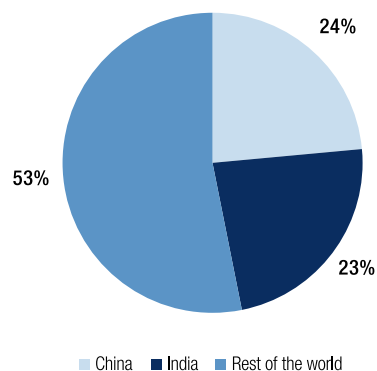
China and India are home to more than a third of the world population. Both countries have made considerable progress. In China, 89% of the population of 1.3 billion use drinking-water from improved sources, up from 67% in 1990. In India, 88% of the population of 1.2 billion use drinking-water from such sources, as compared to 72% in 1990. China and India together account for a 47% share, of the 1.8 billion people that gained access to improved drinking-water sources between 1990 and 2008. This share is almost equally distributed between the two countries. Obviously, these two countries heavily influence the global trend. Therefore, the ability to reach the MDG target is highly dependent on the performance of these two countries.

For sanitation, even with the increase between 1990 and 2008 in the proportion of the population using improved sanitation facilities in China (from 41% to 55%) and India (from 18% to 31%), the world is not on track to meet the sanitation target. This is despite the fact that 475 million people gained access to improved sanitation in these two countries alone, a 38% share of the 1.3 billion people that gained access globally.

Four out of 10 people gaining access in 1990-2008 to improved sanitation live in China and India



Nearly half of world population gaining access to improved sources of drinking-water in 1990-2008 live in China and India





Open defecation

Open defecation: when human faeces are disposed of in fields, forests, bushes, open bodies of water, beaches or other open spaces or disposed of with solid waste.

Unimproved facilities

Unimproved sanitation facilities: do not ensure hygienic separation of human excreta from human contact. Unimproved facilities include pit latrines without a slab or platform, hanging latrines and bucket latrines.

Shared

Shared sanitation facilities: Sanitation facilities of an otherwise acceptable type shared between two or more households. Only facilities that are not shared or not public are considered improved.

Improved

Improved sanitation facilities: ensure hygienic separation of human excreta from human contact. They are use of the following facilities:

- Flush/pour flush to:
 - piped sewer system
 - septic tank
 - pit latrine
- Ventilated improved pit (VIP) latrine
- Pit latrine with slab
- Composting toilet

SANITATION LADDER

UNIMPROVED SANITATION

IMPROVED SANITATION

SANITATION LADDER: GLOBAL AND REGIONAL TRENDS

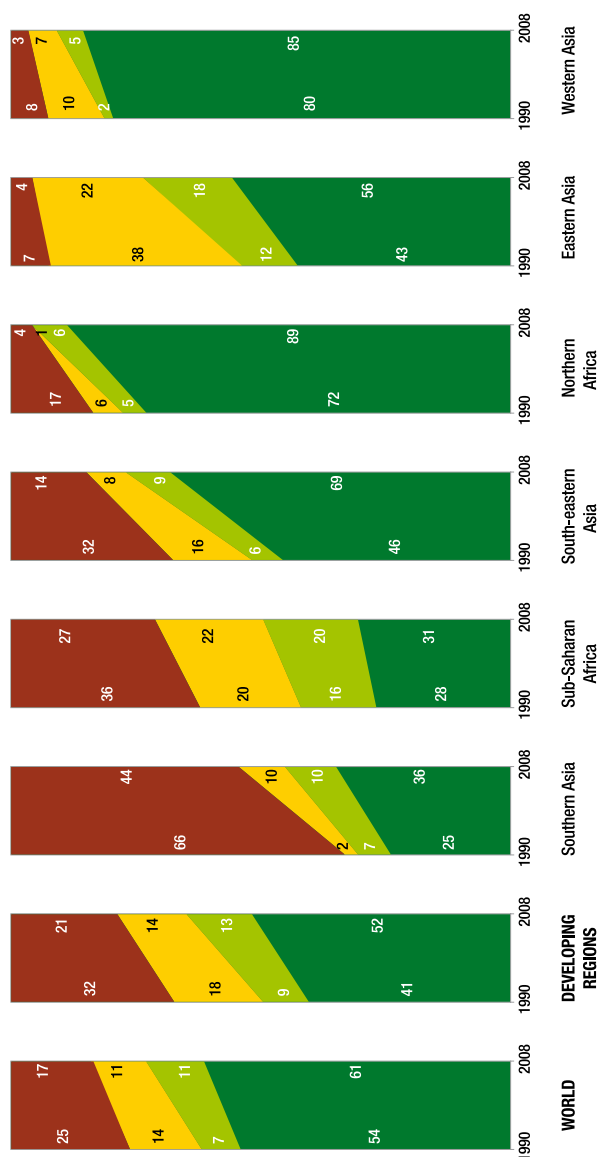


Figure 11 Proportion of the population using an improved, shared or unimproved sanitation facility or practising open defecation, by MDG region, in 1990 and 2008

Trends in sanitation practices can more easily be assessed by taking a disaggregated view of the use of the different sanitation facilities and the practice of open defecation, as categorized in the sidebar.

The proportion of the population using improved sanitation facilities is increasing in all the developing regions. Southern Asia and Sub-Saharan Africa are the only regions where less than half the population use improved sanitation facilities.

Open defecation is declining in all regions and has decreased worldwide from 25% in 1990 to 17% in 2008. Open defecation is still most widely practised in Southern Asia and Sub-Saharan Africa - by 44% and 27% of the population, respectively. In contrast, open defecation is now practised by only 4% of the population in Northern Africa and Eastern Asia and 3% in Western Asia. In five of the seven developing regions for which data are available, less than 15% of the population practises open defecation.¹

¹ No separate charts are provided for Latin America and the Caribbean, Oceania, the Commonwealth of Independent States, or for developed regions because of insufficient data.



DRINKING-WATER LADDER: GLOBAL AND REGIONAL TRENDS

Today 87% of the world's population, a total of 5.9 billion people worldwide, uses drinking-water from improved sources, an increase of 1.8 billion people since 1990. About 3.8 billion people (57% of the global population) get their drinking-water from a piped connection that provides running water into their dwelling, plot or yard.

All regions of the world have succeeded in reducing the proportion of the population using unimproved sources for drinking-water. Progress has been greatest in Eastern Asia, where the use of unimproved sources has declined by 20 percentage points.

All regions except for the Commonwealth of Independent States have seen progress in the use of piped water on premises. Moreover, the rate of increase in the use of piped water on premises has been faster than the rate of progress in the use of other improved drinking-water sources, in all regions except for Sub-Saharan Africa, Southern Asia and CIS.

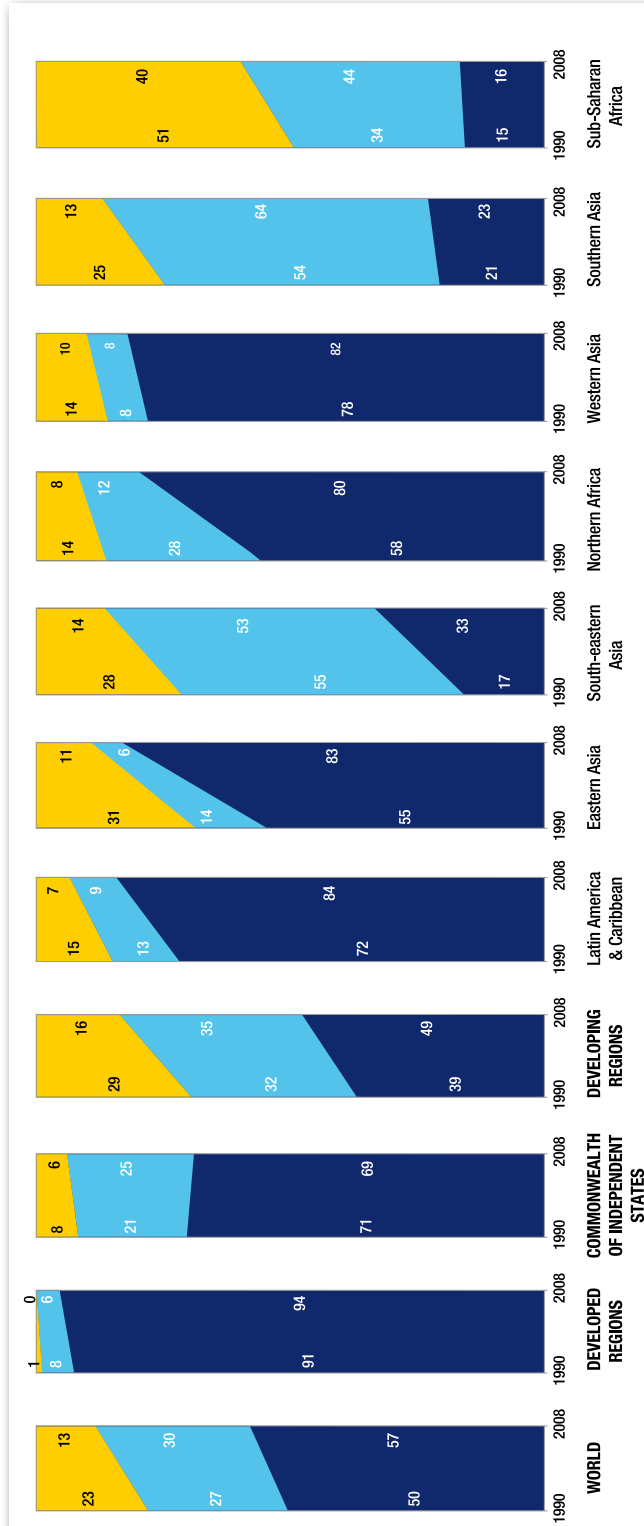


Figure 12 Proportion of the population using piped drinking-water on premises, other improved drinking-water source or an unimproved source, by MDG region, in 1990 and 2008





URBAN-RURAL DISPARITIES



SANITATION: URBAN-RURAL DISPARITIES

The use of improved sanitation facilities is particularly low in Sub-Saharan Africa at 31% overall – even so, the disparity between urban and rural areas is striking. Disparities are also particularly apparent in Latin America & Caribbean, Southern Asia and Oceania. Seven out of ten people without improved sanitation live in rural areas.

Use of improved sanitation in urban areas is higher than in rural areas

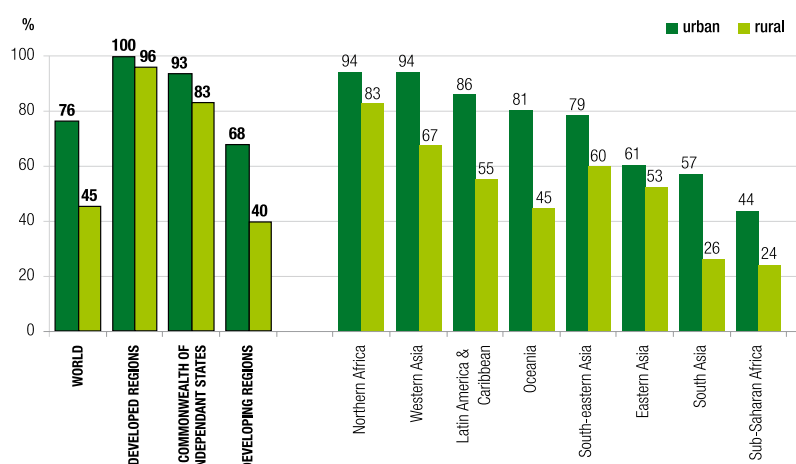


Figure 13 Urban-rural use of improved sanitation, in MDG Regions, 2008

Seven out of 10 people without improved sanitation live in rural areas

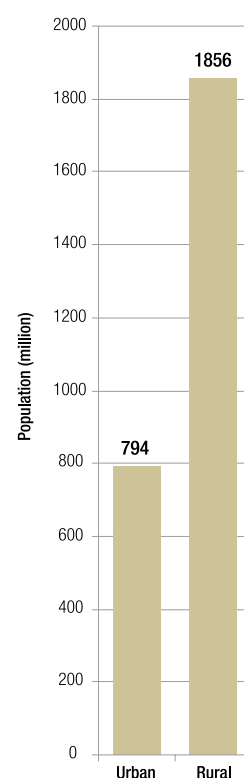


Figure 14 Urban and rural population without improved sanitation, worldwide 2008

Major progress in the use of improved sanitation is undermined by population growth

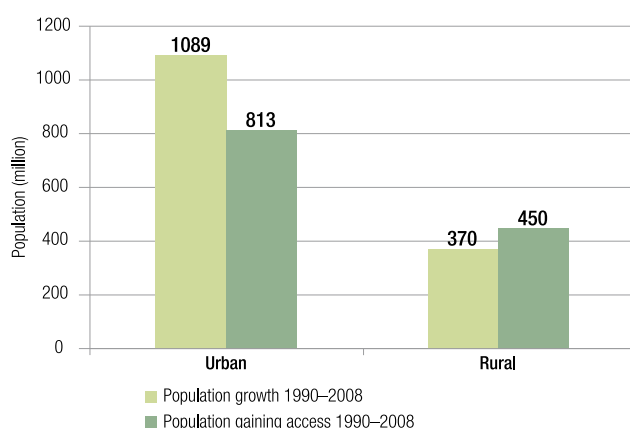


Figure 15 Population gaining access to improved sanitation compared to population growth, urban and rural, worldwide, 1990–2008

There are significant disparities between rural and urban areas in regard to sanitation. Rural areas continue to have a lower percentage of population using improved sanitation and a higher number of people without improved facilities. Of the approximately 1.3 billion people who gained access to improved sanitation during the period 1990-2008, 64% live in urban areas. However urban areas, though better served than rural areas, are struggling to keep up with the growth of the urban population.

Urban-rural disparities in the use of improved sanitation facilities are significant in most developing countries

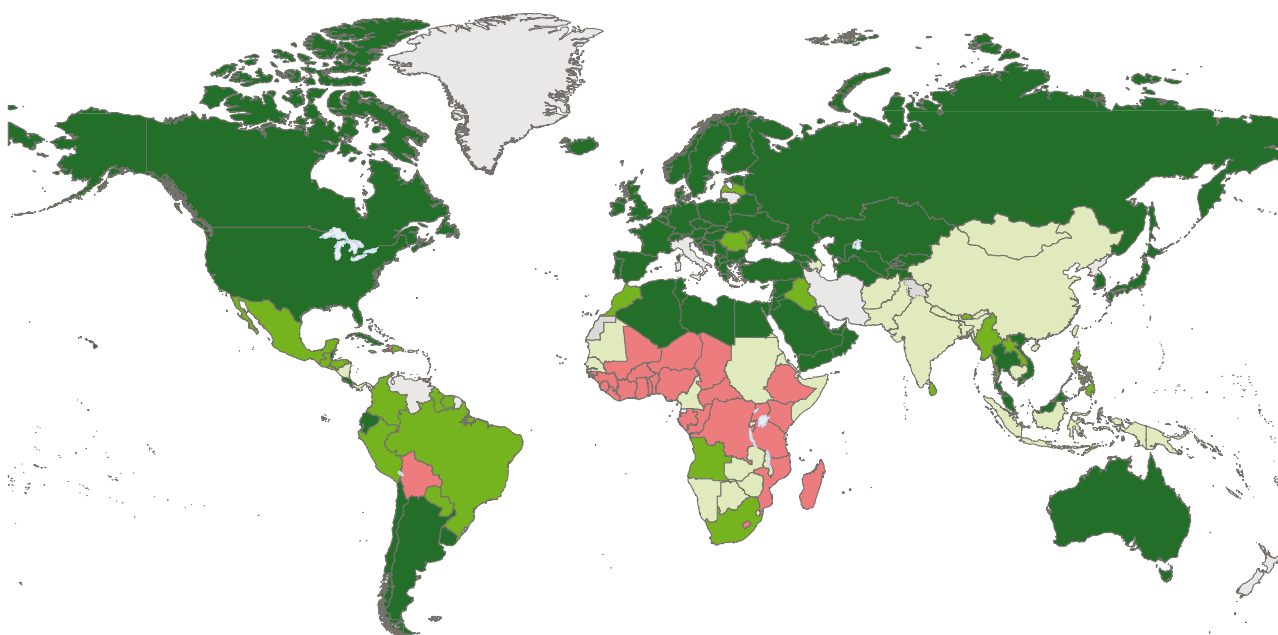


Figure 16 Use of improved sanitation in urban areas, 2008

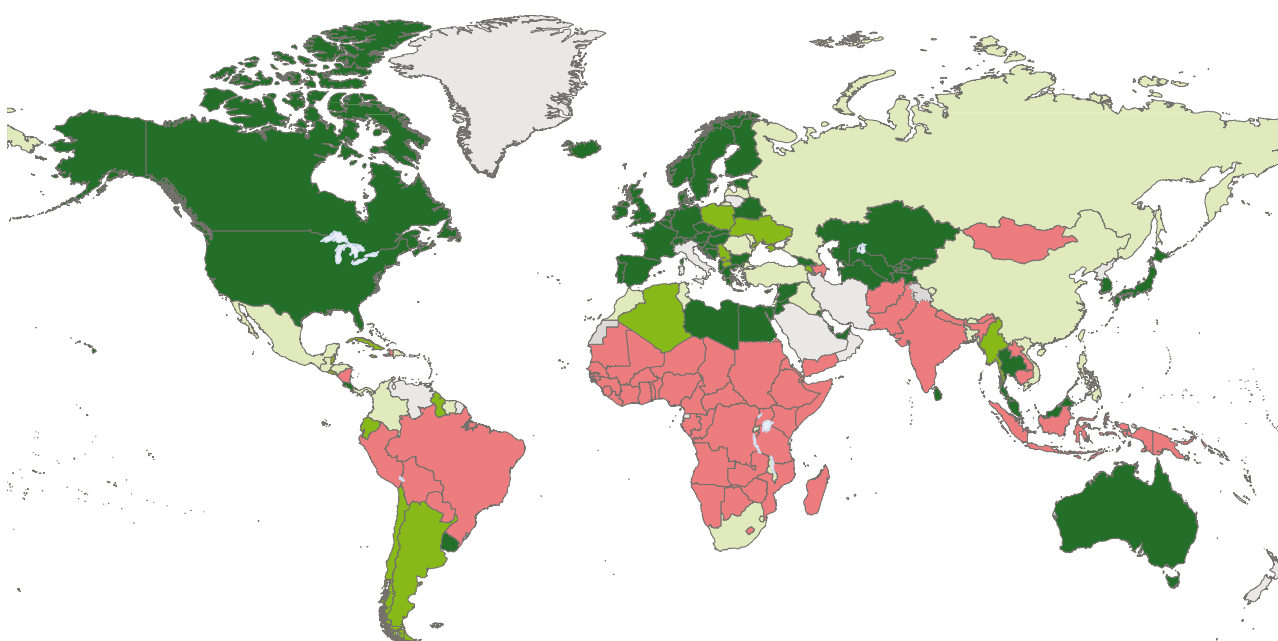


Figure 17 Use of improved sanitation in rural areas, 2008

Use of Improved sanitation

91-100%

76-90%

50-75%

<50%

No or insufficient data

DRINKING-WATER: URBAN-RURAL DISPARITIES

Worldwide, 87% of the population gets their drinking-water from improved sources, and the corresponding figure for developing regions is also high at 84%. While 94% of the urban population of developing regions uses improved sources, it is only 76% of rural populations.

Use of improved drinking-water sources in urban areas is almost double the use in rural areas of Sub-Saharan Africa and Oceania

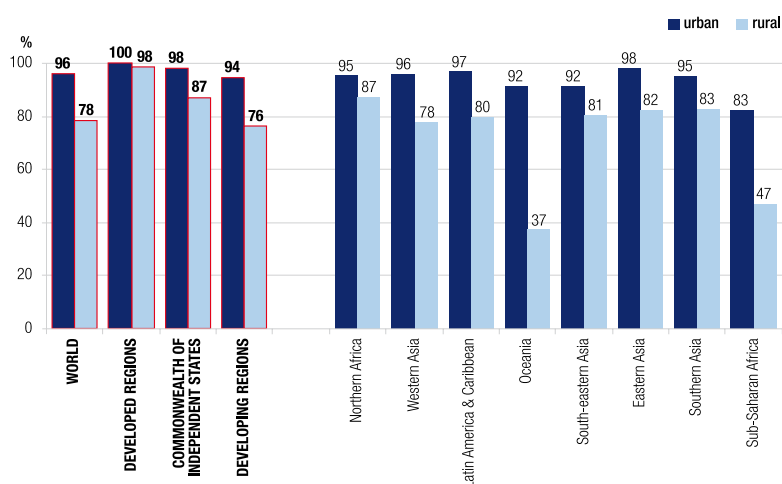


Figure 18 Urban-Rural uses of improved sources of drinking-water, in MDG regions, 2008

84% of the world population without an improved drinking-water source lives in rural areas

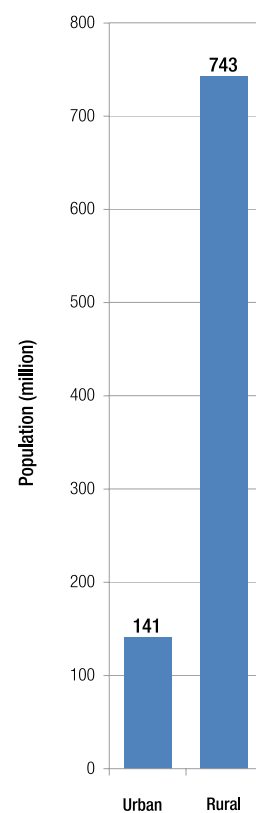


Figure 19 Urban and rural population without improved sources of drinking-water, worldwide, 2008

Increase in the use of improved drinking-water sources is barely keeping up with the urban population growth

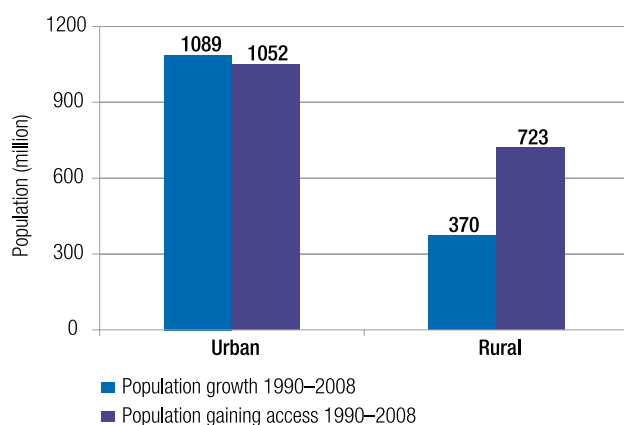


Figure 20 Population gaining access to improved drinking-water compared to population growth, urban and rural, worldwide, 1990–2008

The rural population without access to an improved drinking-water source is over five times greater than that in urban areas. Of almost 1.8 billion people gaining access to improved drinking-water in the period 1990-2008, 59% live in urban areas. The urban-rural disparities are particularly striking in Sub-Saharan Africa, but are also visible in Asia and Latin America. In urban areas, however, the increase in coverage is barely keeping pace with population growth.

Urban-rural disparities are striking in Africa

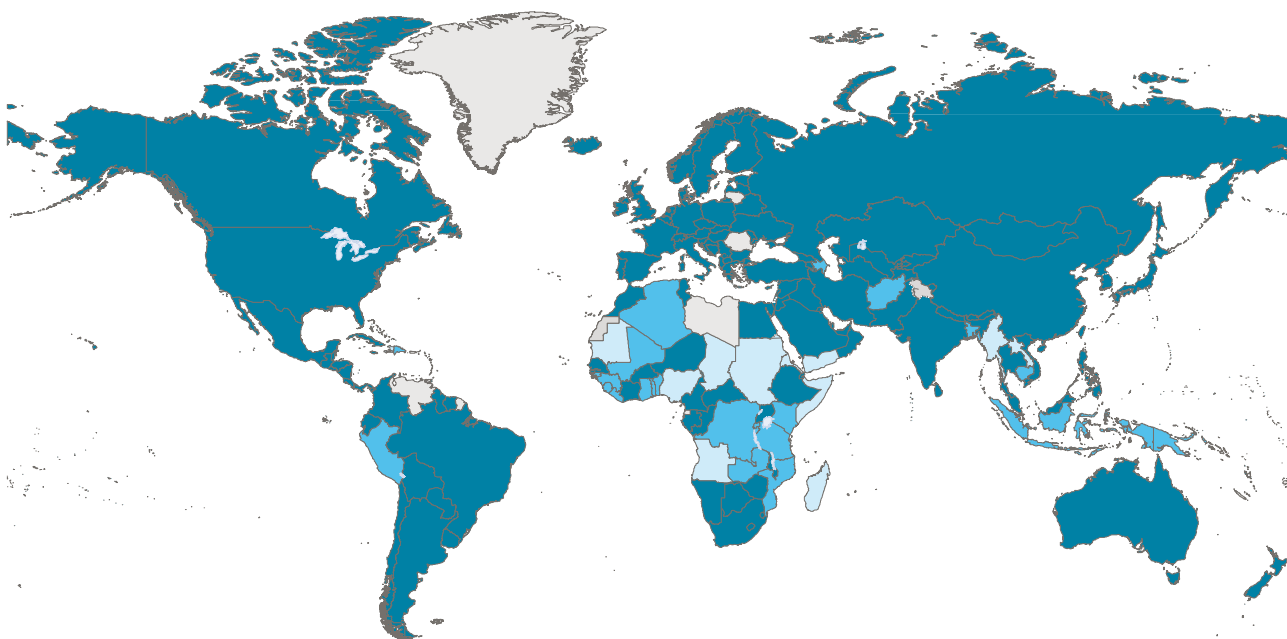


Figure 21 Use of improved sources of drinking-water in urban areas, 2008

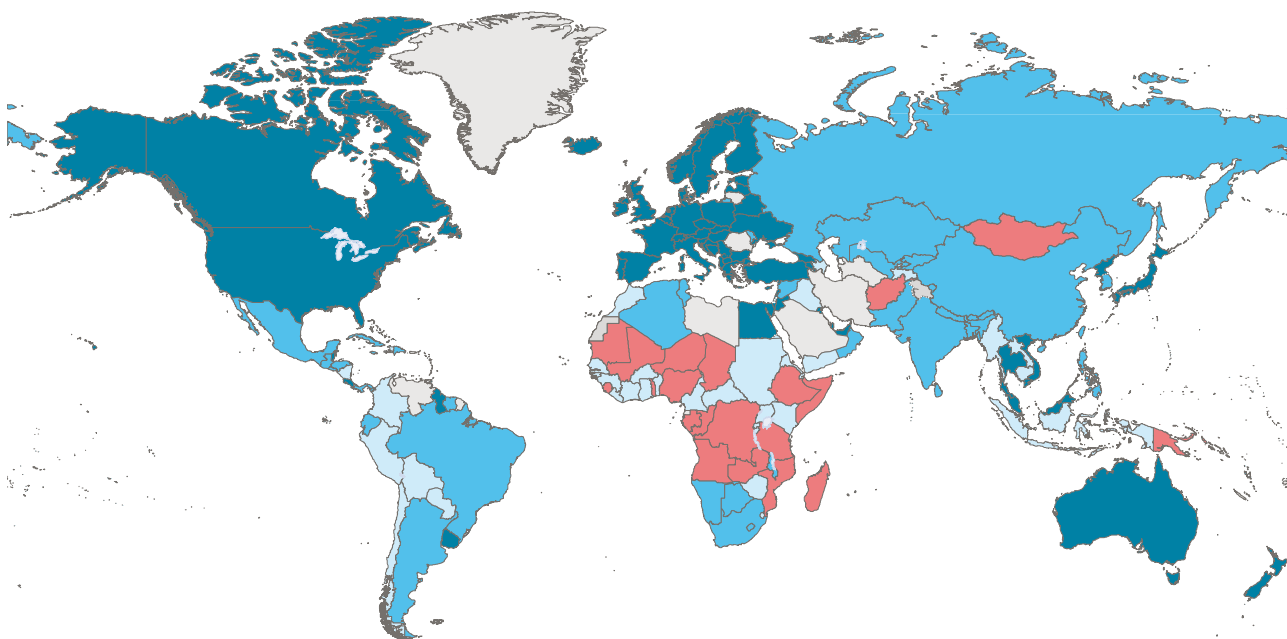


Figure 22 Use of improved sources of drinking-water in rural areas, 2008

Use of Improved drinking-water sources

91-100%

76-90%

50-75%

<50%

No or insufficient data





A CLOSER LOOK AT THE LADDERS



OPEN DEFECATION

1.1 BILLION PEOPLE STILL DEFECATE IN THE OPEN

By far the great majority of people practising open defecation live in rural areas, but this number is declining. However, partly because of rapid increases in the urban population, a growing number of people in urban areas defecate in the open.

The proportion of the world population that practises open defecation declined by almost one third from 25% in 1990 to 17% in 2008. A decline in open defecation rates was recorded in all regions. In Sub-Saharan Africa, open defecation rates fell by 25 per cent. In absolute numbers, the population practising open defecation increased, however, from 188 million in 1990 to 224 million in 2008. In Southern Asia, home to 64% of the world population that defecate in the open, the practice decreased the most – from 66% in 1990 to 44% in 2008.

81% of 1.1 billion people that defecate in the open worldwide live in 10 countries

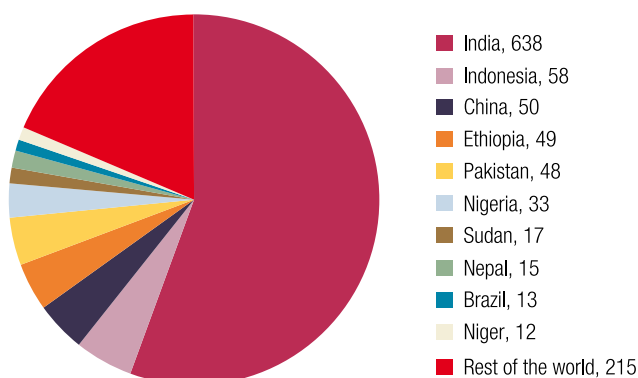


Figure 23 Distribution of 1.1 billion people who practise open defecation, 2008, population (million)

The number of people practising open defecation increased in urban areas

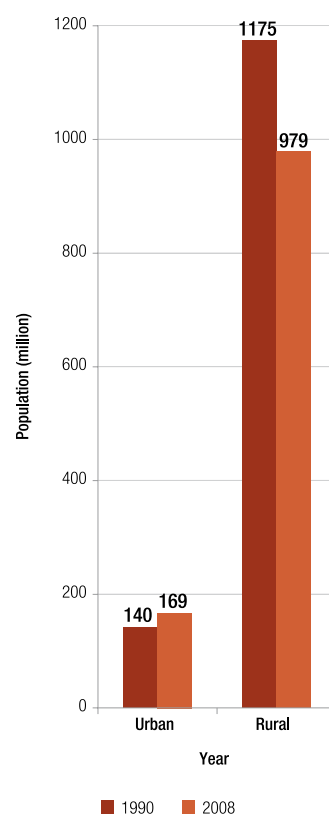


Figure 24 Number of people practising open defecation, urban and rural areas, worldwide, 1990-2008

Open defecation declined considerably in all developing regions

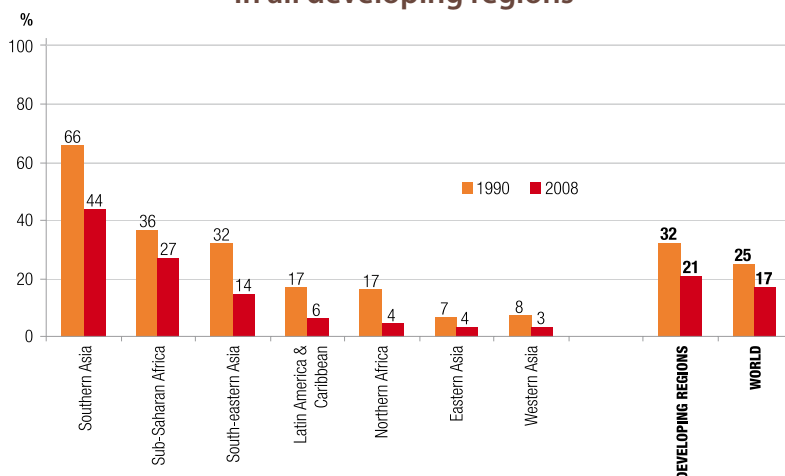


Figure 25 Regional changes in open defecation rates, 1990-2008

SHARED AND UNIMPROVED SANITATION FACILITIES

751 MILLION PEOPLE SHARE THEIR SANITATION FACILITIES

Shared sanitation facilities as defined for MDG monitoring purposes are facilities of an otherwise improved type that are either public or shared between two or more households. Sharing of improved sanitation facilities is most prevalent in urban areas. Often densely populated urban areas do not have sufficient space to construct private sanitation facilities and people rely on public or shared facilities. Among the different regions, using a shared facility is most common in urban Sub-Saharan Africa (31%), and particularly in Ghana. In 1990, 249 million people in urban areas used shared facilities as compared with 145 million in rural areas. Those numbers have now almost doubled to 497 million in urban areas and risen to 254 million in rural areas, representing a worldwide increase of 4%.

Table 1 Urban, rural and total use of shared sanitation for the countries where shared sanitation rate in urban areas in 2008 is 35% or more

COUNTRY	USE OF SHARED SANITATION, 2008 (%)		
	URBAN	RURAL	TOTAL
Ghana	70	38	54
Uganda	56	22	26
Kenya	51	18	25
Sierra Leone	47	18	29
Bolivia	44	16	34
Togo	44	6	22
Malawi	42	24	27
Guinea	42	6	18
Zimbabwe	40	15	24
Nigeria	38	14	26
Gabon	36	25	34
Lesotho	35	3	11

Shared sanitation increased almost two fold but remains considerably higher among urban users

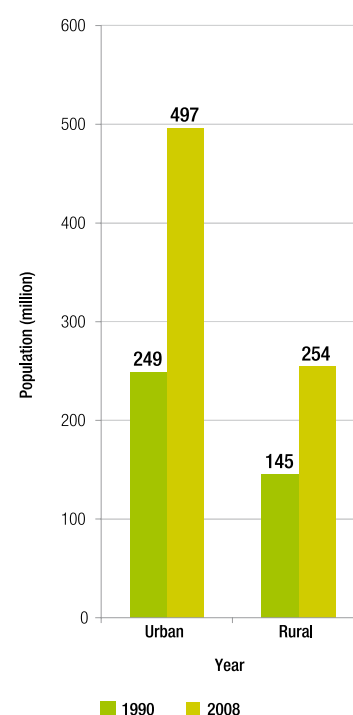


Figure 26 Number of people sharing sanitation facilities, urban and rural areas, 1990-2008

A TENTH OF THE WORLD POPULATION USES UNIMPROVED SANITATION FACILITIES

Unimproved sanitation facilities are unsatisfactory in terms of public health, although existing facilities may be upgraded in various ways to prevent human contact with excreta.

Globally the proportion of the rural population using unimproved sanitation facilities is more than fourfold that in urban areas. This is despite the decrease in the use of unimproved sanitation facilities in rural areas of the developing regions from 23% in 1990 to 20% in 2008.

Use of unimproved sanitation facilities is much higher in rural areas than in the urban areas.

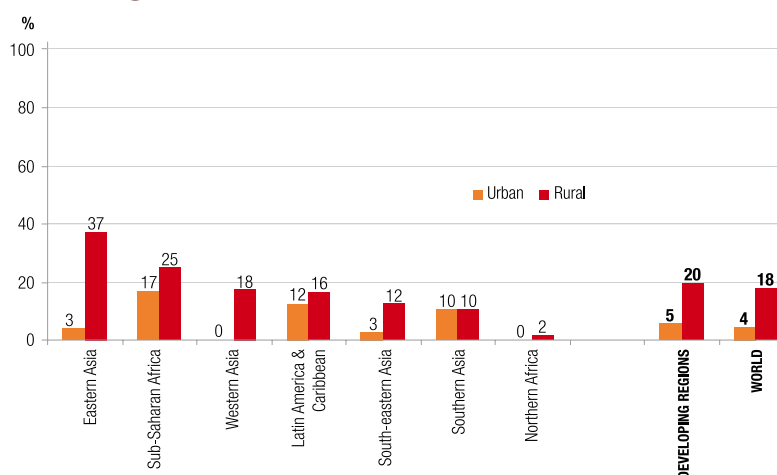


Figure 27 Urban-rural disparities in the use of unimproved sanitation facilities, MDG regions, 2008

CHALLENGE: ARE SHALLOW-PITS AND DRY-LATRINES IMPROVED OR NOT?

Classifying the different types of sanitation facilities, covered by household surveys and censuses, as “improved” or “unimproved” has been an ongoing challenge for JMP. The impact on national rates of access to improved sanitation could be substantial, especially when the facility type is used by a large proportion of the population. When this concerns a large country such as China, the impact on the global estimates could be considerable.

Chinese authorities distinguish harmless sanitary latrines and sanitary latrines and they both meet the MDG criteria for an improved sanitation facility that hygienically separates human waste from human contact. Sanitary latrines are defined by the Chinese Sanitation Authority as *those structures which have walls, roofs, seepage-free and leakage free storage tanks, furnished with airtight covers, with a clean latrine room, free from flies and maggots, odourless, and in which faeces are collected in a timely manner and are treated so as to be harmless.*

According to survey and census data, in rural areas of China the use of sanitary latrines has gradually increased to 25% in 2008, while the proportion of the rural population that uses another type of sanitation facility, labelled by different surveys as a dry latrine, dry toilet, shallow pit, covered pit or non-covered pit has gradually decreased from 84% in 1991 to 68% in 2008. Though these facilities do not meet the national criteria for a sanitary latrine, it is likely that some meet the MDG criteria for an improved sanitation facility. However without specific information about these facilities, it is a challenge to classify them as either improved or unimproved. The fact that a large proportion of the Chinese population uses these types of facilities has a significant impact on the number of people with or without access to an improved sanitation facility.



PIPED WATER ON PREMISES AND OTHER IMPROVED SOURCES OF DRINKING-WATER

INVESTMENTS IN PIPED CONNECTIONS ON PREMISES DRIVE PROGRESS IN MOST REGIONS

Between 1990 and 2008, more than 1.2 billion people worldwide gained access to a piped connection on premises. This is more than twice the population that gained access to other improved drinking-water sources. In Eastern Asia, Latin America & Caribbean and Northern Africa progress was exclusively the result of increases in piped connections on premises. Since 1990, 510 million in Eastern Asia, 167 million in Latin America & Caribbean and 61 million in Northern Africa gained access to a piped connection on premises. The number of people relying on other improved sources in those regions actually declined, respectively, by 73 million, 6 million and 14 million.

In Sub-Saharan Africa, growth in the population gaining access to other improved sources was 3.5 times higher than the growth in the population with piped connections on premises. In South Asia it was three times higher.

In developing regions, while 73% of the urban population uses piped water from a household connection, only 31% of rural inhabitants have access to household piped water supplies. In Sub-Saharan Africa, only 5% of the rural population gets water piped to premises. In contrast, in urban areas of Sub-Saharan Africa, 35% of urban dwellers use water piped to the household.

**Growth in piped connections on premises
is twice as high as the growth in other
improved drinking-water sources**

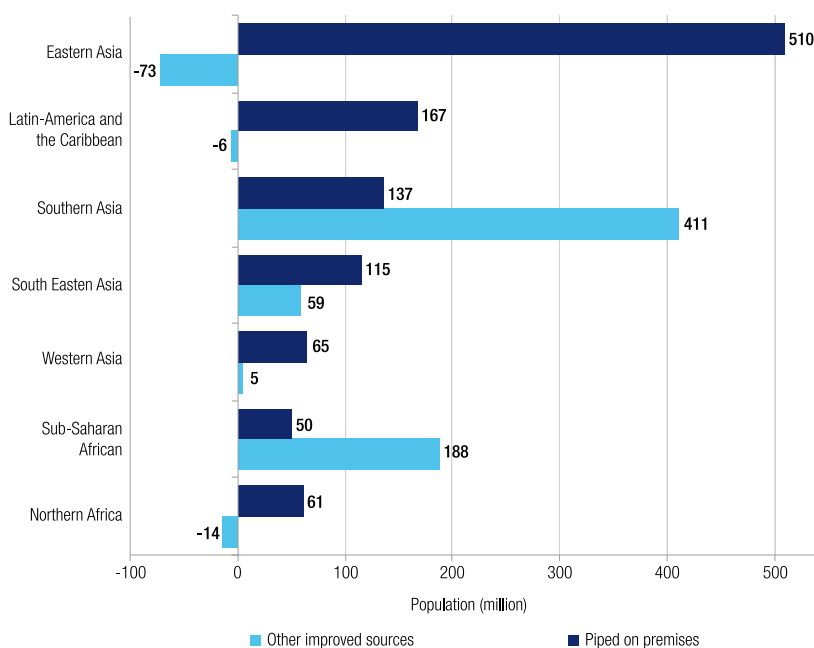


Figure 28 Change of population getting their drinking-water piped on premises or from other improved sources, by MDG region, 1990-2008

**Urban use of piped water
on premises is more than
double rural use**

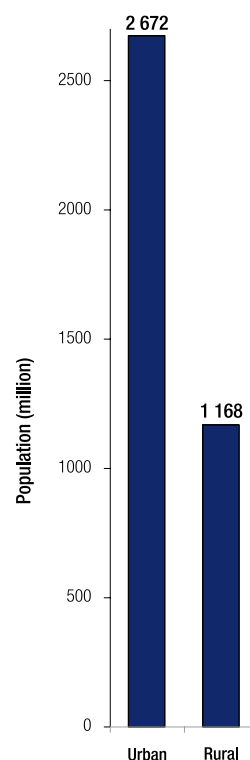


Figure 29 Urban and rural population using piped water on premises, worldwide, 2008





ADDITIONAL PERSPECTIVES



TIME TO COLLECT DRINKING-WATER

Research has shown that those spending more than half an hour per round trip progressively collect less water, and eventually fail to meet their families' minimum daily drinking-water needs.² Additionally, the economic costs of having to make multiple trips per day to collect drinking-water are enormous.³

More than a quarter of the population in several countries of Sub-Saharan Africa takes longer than 30 minutes to make one water collection round trip

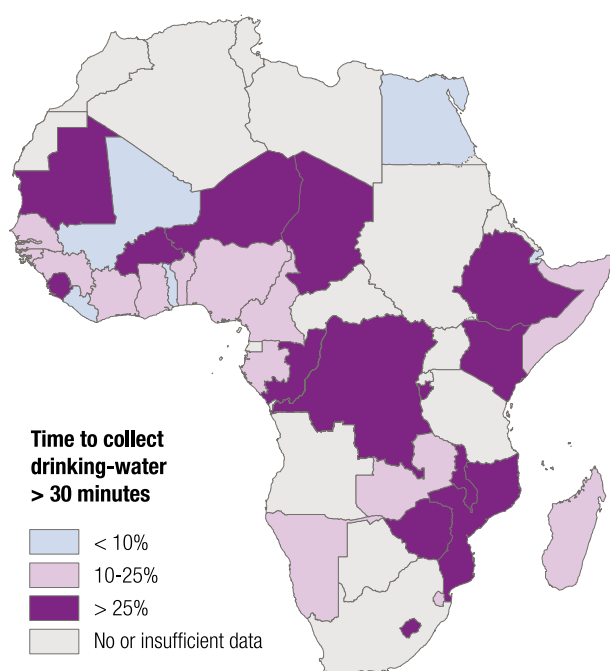


Figure 30 Percentage of population that spends more than 30 minutes on a water collection round trip

An analysis of MICS and DHS surveys conducted over the past four years shows that water collection trips of over 30 minutes are most prevalent in Africa⁴ as well as in arid countries outside of Africa, such as Mongolia and Yemen.

In various countries, most notably in Eastern Africa, more than a quarter of the population spends more than half an hour per round trip to collect water.

In many African countries, one third of the improved drinking-water sources that are not piped on premises need a collection time of more than 30 minutes.

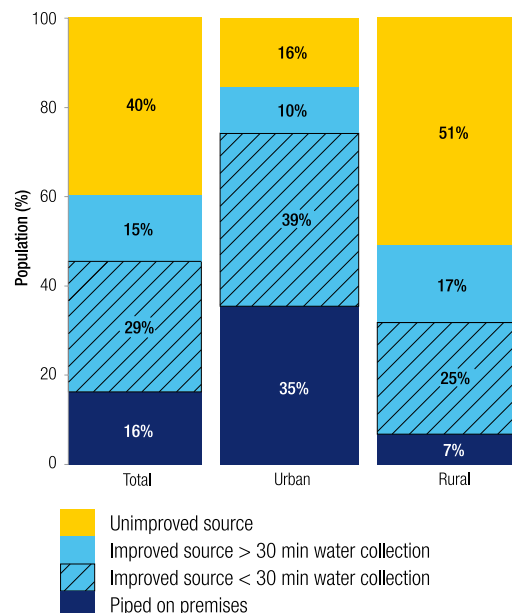


Figure 31 Proportion of the population spending half an hour or less, or more than half an hour, to collect water from an improved source, or using water from an unimproved source, Sub-Saharan Africa

² Hutton G, Haller L, *Evaluations of the costs and benefits of water and sanitation improvements at the global level*. Geneva, World Health Organization, 2004.

³ Howard G and Bartram J, *Domestic water quantity, service level and health*. Geneva, World Health Organization, 2003.

⁴ MICS and DHS surveys from 24 countries in Sub-Saharan Africa, 2005-2008.

COLLECTION OF DRINKING-WATER: GENDER DISPARITIES

For families without a drinking-water source on the premises, it is usually women who go to the source to collect drinking-water. Surveys from 45 developing countries⁵ show that this is the case in almost two thirds of households, while in almost a quarter of households it is men who usually collect the water. In 12% of households, however, children carry the main responsibility for collecting water, with girls under 15 years of age being twice as likely to carry this responsibility as boys under the age of 15 years. The real burden on children is likely to be higher because, in many households the water collection burden is shared, and children – though not the main person responsible – often make several roundtrips carrying water.

**Women shoulder the largest burden
in collecting drinking-water**

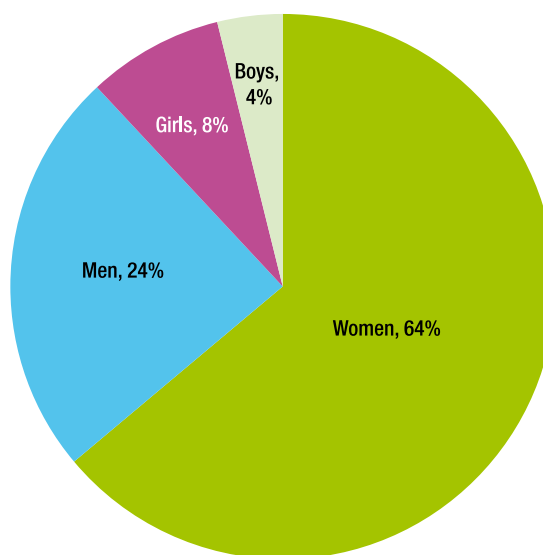


Figure 32 Distribution of those who usually collect drinking-water



⁵ MICS and DHS surveys from 45 developing countries, 2005-2008.

SOCIOECONOMIC DISPARITIES: SUB-SAHARAN AFRICA

The richest 20 % of the population in Sub-Saharan Africa is almost five times as likely to use an improved sanitation facility than the poorest quintile.⁶ The poorest 20% is around 16 times more likely to practise open defecation than the richest quintile. Still, even among the richest quintile, 4% practises open defecation.

The richest quintile of the population in Sub-Saharan Africa is more than twice as likely as the poorest quintile to use an improved drinking-water source. The benefits of piped water on premises are enjoyed only by the wealthiest.

The poorest quintile is 16 times more likely than the richest quintile to practise open defecation

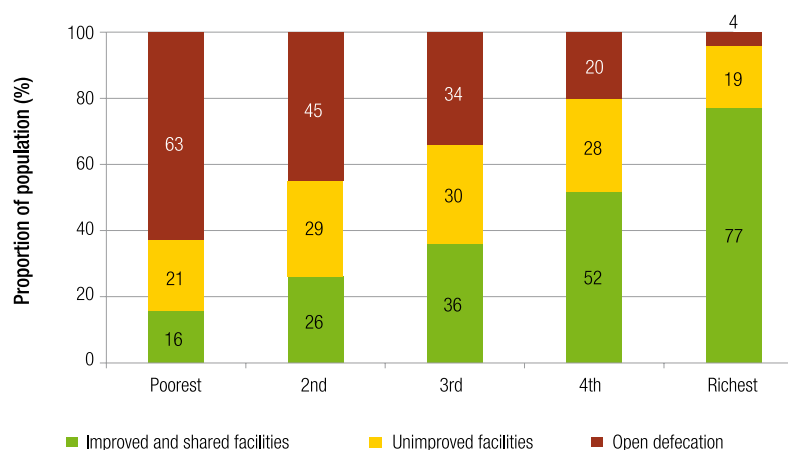


Figure 33 Proportion of the population using an improved, shared or unimproved sanitation facility or practicing open defecation, by wealth quintile, Sub-Saharan Africa



The richest quintile is more than twice as likely than the poorest quintile to use improved drinking-water

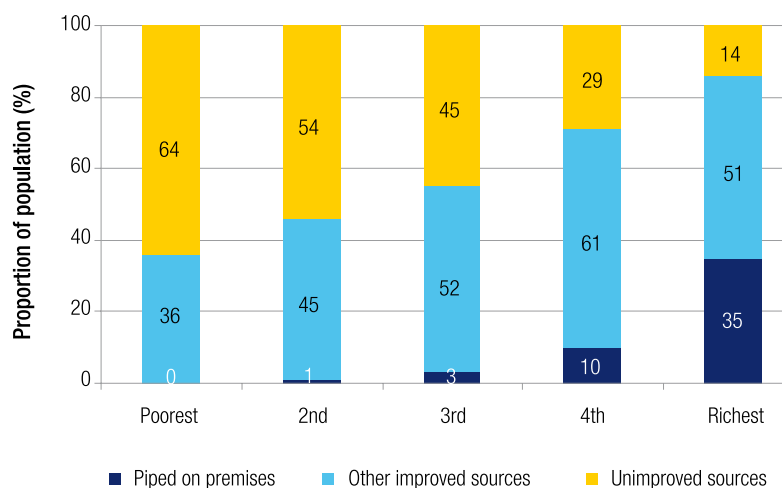


Figure 34 Proportion of the population using drinking-water piped on premises, other improved drinking-water source or an unimproved source, by wealth quintile, Sub-Saharan Africa

⁶ MICS and DHS surveys from 33 countries in Sub-Saharan Africa, 2004-2009.

CHALLENGE: MEASURING WATER QUALITY

The measurement of water safety indicators at the household level has to date been beset by technical and logistical difficulties and by high cost.

How can the safety of drinking-water be monitored globally? What definitions would be meaningful and assist decision-makers in the process of improving the drinking-water situation in the world? How do new concepts in assessing and managing risks to water safety apply in the JMP context? What research and development efforts are needed to come up with a rapid, reliable and cost-effective way of measuring water quality indicators locally and reporting on them at the global level? These are some of the questions to be addressed by a JMP task force.

The MDG target refers to sustainable access to safe drinking-water and basic sanitation. But what does “safe” mean? The WHO *Drinking-water quality guidelines* provides specific values for indicators of microbial contamination and chemical hazards, but allows countries to adapt guideline values to their own socioeconomic contexts. The third edition of the guidelines shifts the emphasis away from single-point water quality testing to a system of integrated risk assessment and incremental risk management.

In the past decade, WHO and UNICEF have tested the option of directly measuring water quality in a number of pilot countries, using a method for the rapid assessment of drinking-water quality (RADWQ).

This RADWQ project (see below) demonstrated the technical feasibility of such measurements, notwithstanding the established weaknesses of using *E.coli* or thermotolerant coliforms as indicators of microbial safety. It also showed that such a periodic water quality survey at a global level was economically not viable. Apart from affordability, there is also the question of opportunity cost: how many people could be provided with access to water and sanitation using the resources that would be needed to carry out water quality surveys?

Any new target set beyond 2015 will have to address water quality, which will have to be measured or estimated in a meaningful and cost-effective manner. Technological advances and innovative survey methods will be needed to provide the tools for rapid, reliable and cheap measurement, to be carried out on a large scale. Within countries, regulatory frameworks will need to be developed, along with the capacity to implement and independently appraise Water Safety Plans as a standard feature of ensuring sustainable access to safe drinking-water.

Pilot survey: rapid assessment of drinking-water quality (RADWQ)

Drinking-water is considered safe if it meets certain microbiological and chemical standards. To evaluate the quality of drinking-water from improved sources, WHO and UNICEF have developed a rapid assessment method, which has already been used for a pilot study in eight countries (Bangladesh, China, Ethiopia, India, Jordan, Nicaragua, Nigeria and Tajikistan).

The rapid assessment of drinking-water quality (RADWQ) survey method for the pilot study was based, for each country, on a randomly selected sample of 1600 water supplies and 160 households. Field test kits were used for microbiological and chemical testing of water quality and to assess sanitary risks in households.

Microbiological compliance with WHO guidelines varied between countries. On average, compliance was close to 90% for piped water sources, and between 40% and 70% for other improved sources.

Source: RADWQ final country reports (Geneva, World Health Organization and UNICEF, forthcoming).



A close-up photograph of a young child with dark hair and eyes, wearing a blue and yellow school uniform, drinking from a clear plastic water bottle. The child's face is the central focus. In the background, other children are visible but out of focus, including one who is smiling. A white horizontal band with the text 'JMP METHOD' is superimposed over the middle of the image. A solid blue vertical bar is on the right edge.

JMP METHOD

JMP METHOD EXPLAINED

DEFINING ACCESS TO SANITATION AND DRINKING-WATER

MDG Target 7c calls on countries to halve, by 2015, the proportion of people without sustainable access to safe drinking-water and basic sanitation. In order to estimate access to basic sanitation and to safe water JMP is required to use two MDG indicators:

- proportion of population using an improved sanitation facility, urban and rural;
- proportion of population using an improved drinking-water source, urban and rural.

Because definitions of improved sanitation facilities and drinking-water sources can vary widely within and among countries and regions, and because JMP is mandated to report at global level and across time, JMP has defined a set of categories for “improved” and “unimproved” sanitation facilities and drinking-water sources that are used to analyse the national data on which the MDG trends and estimates are based.

An improved sanitation facility is one that hygienically separates human excreta from human contact. An improved drinking-water source is one that by the nature of its construction adequately protects the source from outside contamination, in particular with faecal matter.



These categories and the population estimates (including the proportion of the population living in urban and rural areas) used in this report are those estimated by the United Nations Population Division, 2008 revision. The estimates used by JMP may differ from those used by national governments. Estimates in this report may therefore differ from national estimates.

DATA COLLECTION: GATHERING MOMENTUM

The first JMP report provided a global picture of access to safe drinking-water and basic sanitation. Also, as the database has grown, JMP has been able to offer more reliable estimates. Because all the estimates are revised for each report, the reports are not comparable.

Since the 2008 report, more than 300 datasets, a record number, has been added to the JMP database. Of these, to complement data directly from countries, for the first time, International Household Survey Network (IHSN) supplied JMP with data from 100 household surveys.

Currently the JMP database includes 729 nationally representative household surveys and 152 Censuses. Almost all of these come from developing regions and to a lesser extent from the Commonwealth of Independent States. Since a census in many developed countries is no longer used to collect information on water and sanitation, the JMP largely relies on administratively reported data for the developed countries. The JMP database currently includes 318 administratively reported data for developed countries.

⁷ Bottled water is considered to be improved only when the household uses drinking-water from an improved source for cooking and personal hygiene; where this information is not available, bottled water is classified on a case-by-case basis.

DERIVING MDG PROGRESS ESTIMATES

For each country, survey and census data are plotted on a timescale from 1980 to the present. A linear trend line, based on the least-squares method, is drawn through these data points to provide estimates for 1990, 1995, 2000, 2005 and 2008 (wherever possible). The total estimates are population weighted average of the urban and rural numbers.

Sanitation trend analyses at country level are made for improved sanitation facilities and open defecation. The estimates for improved sanitation facilities presented in this report are discounted by the proportion of the population that shared an improved type of sanitation facility. The ratio (proportion of the population that shares an improved sanitation facility between two or more households) derived from average of all available ratios from household surveys and censuses is subsequently subtracted from the trend estimates of improved sanitation facilities, and this gives the estimates for shared sanitation facilities.

Drinking-water trend analysis at the country level is carried out for the following categories: piped water into dwelling, plot or yard; and improved sources of drinking-water.



Challenge: dealing with a moving baseline

The MDG target sets the proportion of people in 1990 without access to safe drinking-water and basic sanitation as the baseline to be halved by 2015. To capture the concept of access as a measurable indicator, JMP monitors progress to the MDG target on the basis of estimates of the proportion of the population using an improved drinking-water source and an improved sanitation facility, respectively.

The 1990 baseline was estimated for the first JMP report using the data available at that time. However, as the monitoring exercise has continued to gather momentum, an increasing number of new data sources become available each year. From a methodological standpoint, JMP takes the view that the estimates in each successive report should be as accurate as possible. This means using all the available data – not only estimating access for the most recent year, but also recalculating the estimates for earlier years if more data have come to light. Consequently, these new estimates may affect the baseline values, the trends, and the projections for 2015, the target year.

The advantage of this method is that each report presents the most accurate and detailed picture of the current situation and of progress made since 1990. The disadvantage is that reports are not comparable from one year to the next.

CHALLENGE: COMPARING AND RECONCILING DIFFERENT COUNTRY ESTIMATES

At country level, differences may be observed in the figures on the use of drinking-water sources and sanitation facilities presented by different agencies. Often there are also differences between these national estimates and those at the MDG level. At the origin of these discrepancies lies the issue of institutional fragmentation. Responsibilities for rural drinking-water and sanitation may be with different national bodies, who may each apply their own monitoring definitions, methods and procedures. The same is true, often at the municipal level, for urban drinking-water and sanitation. What is the nature of these different approaches? Can definitions be harmonized? Is it possible to align numbers so discrepancies can be reduced? Can barriers between sectoral institutions be overcome in the area of monitoring? Ultimately, can national monitoring of sanitation and drinking-water be fitted into a common framework?

This challenge has been addressed by JMP over the past two years in collaboration with a small number of countries. The first results of these data reconciliation and alignment processes are enlightening and promising.

DIFFERENT ACTORS MEASURING DIFFERENT ASPECTS

At national level, it is common for different institutions to monitor national access to drinking-water and sanitation. The National Statistics Office (NSO) usually has the overall responsibility over all national data, however individual line-ministries responsible for actual service provision often have their own monitoring mechanisms. Where NSOs largely rely on household surveys and census data, line-ministries often track progress based on recorded outputs of the sector.

While line ministries responsible for water supply and sanitation often measure the provision of drinking-water supply and sanitation facilities and/or the number of service connections, NSOs tend to measure the actual

use of drinking-water and sanitation facilities by household members. This difference is important as a service once provided may no longer be operational, or simply may not be used for various reasons.

USING DIFFERENT DEFINITIONS OF ACCESS

NSOs and different line-ministries may use different definitions of access and these, in turn, may differ from the definitions used for the MDG coverage estimates. Understanding the differences in definitions is key to the process of comparing national and MDG coverage estimates.

HOW COVERAGE IS MEASURED FOR MDG MONITORING

Since the MDG targets are based on the use of improved sanitation and drinking-water facilities, the JMP relies on nationally representative household surveys and censuses usually conducted by NSOs. In order to be able to compare coverage rates and progress among countries, standard definitions of access are used across all countries (see definitions on page 34).

RECONCILING JMP AND COUNTRY ESTIMATES

Over the past two years, JMP has worked with a number of pilot countries to:

- develop a common understanding of monitoring methods;
- explore the possibility of harmonizing or aligning monitoring approaches;
- encourage greater collaboration among national agencies, and between national agencies and JMP.

Once definitions are clarified at national level, it is possible to make national and JMP definitions correspond better. The JMP objective is to ensure comparability between countries. Efforts by JMP to reconcile data have advanced understanding of the different approaches taken by countries. However, it is not within the JMP's mandate or capacity to carry out such a process in every country. JMP is therefore collaborating with other country-based organizations to pursue this task.



STATISTICAL TABLE



Country, area or territory	Year	Population (thousand)	Percentage urban population	USE OF SANITATION FACILITIES (PERCENTAGE OF POPULATION)												Number of people who gained access to improved sanitation 1990-2008 (thousand)	USE OF DRINKING-WATER SOURCES (PERCENTAGE OF POPULATION)												Number of people who gained access to improved sources of drinking-water 1990-2008 (thousand)												
				Urban						Rural							Total						Urban							Rural						Total					
				Improved			Unimproved			Improved			Unimproved				Improved			Unimproved			Improved			Unimproved				Improved			Unimproved			Improved			Unimproved		
				Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation		Shared	Unimproved facilities	Open Defecation	Total improved	Piped on premises	Other improved	Total improved	Piped on premises	Other improved	Total improved	Piped on premises	Other improved		Total improved	Piped on premises	Other improved	Total improved	Piped on premises	Other improved	Total improved					
Afghanistan	1990	12 580	18	46	43	11	28	30	37	32	40	28	16	36	10	26	64	17	0	17	83	21	2	19	79	-	-	-	-	-	-	-	-	-	-	-					
	2000	20 536	21	60	38	2	30	30	37	32	40	28	16	78	16	62	22	39	0	39	61	48	4	44	52	-	-	-	-	-	-	-	-	-	-	-					
	2008	27 208	24	36	-	-	-	-	-	-	-	-	-	100	98	2	0	95	43	52	5	97	66	31	3	-	-	-	-	-	-	-	-	-	-	-					
Albania	1990	3 289	36	97	2	1	85	1	98	1	9	1	-	96	91	5	4	98	82	16	2	97	86	11	3	-	-	-	-	-	-	-	-	-	-	-					
	2000	3 068	42	99	1	0	77	-	88	-	5	7	-	100	87	13	0	88	48	40	12	94	68	26	6	-	-	-	-	-	-	-	-	-	-	-					
	2008	3 143	47	98	2	0	98	1	98	1	2	6	-	93	84	9	7	84	52	32	16	89	71	18	11	4 764	4 764	-	-	-	-	-	-	-	-	-					
Algeria	1990	25 283	52	99	1	0	82	4	92	2	2	6	-	85	80	5	15	79	56	23	21	83	72	11	17	-	-	-	-	-	-	-	-	-	-	-					
	2000	30 506	60	99	0	1	88	-	95	1	1	4	-	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
	2008	34 373	65	98	1	1	95	-	100	-	0	0	-	100	100	0	0	100	100	0	0	100	100	0	0	32	32	-	-	-	-	-	-	-	-	-					
Andorra	1990	53	95	100	0	0	100	0	100	0	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
	2000	66	92	100	0	0	100	0	100	0	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
	2008	84	90	100	0	0	100	0	100	0	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
Angola	1990	10 661	37	58	7	35	6	17	77	25	14	61	44	30	1	29	70	40	0	40	60	36	0	36	64	-	-	-	-	-	-	-	-	-	-	-					
	2000	14 280	49	70	10	20	11	22	67	40	16	44	23	43	12	31	57	40	1	39	60	41	6	35	59	5 172	5 172	-	-	-	-	-	-	-	-	-					
	2008	18 021	57	86	13	1	18	29	53	57	20	23	23	60	34	26	40	38	1	37	62	50	20	30	50	-	-	-	-	-	-	-	-	-	-	-					
Anguilla	1990	8	100	99	1	1	NA	NA	NA	99	1	1	-	60	45	15	40	NA	NA	NA	NA	NA	60	45	15	40	-	-	-	-	-	-	-	-	-	-					
	2000	11	100	99	1	1	NA	NA	NA	99	1	1	-	95	73	22	5	89	82	7	11	91	79	12	9	-	-	-	-	-	-	-	-	-	-	-					
	2008	15	100	99	1	1	NA	NA	NA	99	1	1	-	95	73	22	5	89	82	7	11	91	79	12	9	-	-	-	-	-	-	-	-	-	-	-					
Antigua and Barbuda	1990	62	35	98	2	2	94	-	95	-	5	5	-	95	73	22	5	89	82	7	11	91	79	12	9	-	-	-	-	-	-	-	-	-	-	-					
	2000	77	37	98	2	2	94	-	95	-	5	5	-	95	73	22	5	89	82	7	11	91	79	12	9	-	-	-	-	-	-	-	-	-	-	-					
	2008	87	43	98	2	2	94	-	95	-	5	5	-	95	73	22	5	89	82	7	11	91	79	12	9	-	-	-	-	-	-	-	-	-	-	-					
Argentina	1990	32 498	87	93	7	7	73	27	90	90	10	10	-	97	76	21	3	72	22	50	28	94	69	25	6	8 139	8 139	-	-	-	-	-	-	-	-	-					
	2000	36 939	90	92	8	8	77	23	91	91	9	9	-	98	81	17	2	78	39	39	22	96	77	19	4	-	-	-	-	-	-	-	-	-	-	-					
	2008	39 883	92	91	9	9	77	23	90	90	10	10	-	98	83	15	2	80	45	35	20	97	80	17	3	-	-	-	-	-	-	-	-	-	-	-					
Armenia	1990	3 545	67	95	4	1	0	-	89	89	4	7	0	99	96	3	1	83	64	19	17	93	85	8	7	-	-	-	-	-	-	-	-	-	-	-					
	2000	3 076	65	95	4	1	0	77	3	89	4	7	0	99	96	3	1	83	64	19	17	93	85	8	7	-	-	-	-	-	-	-	-	-	-	-					
	2008	3 077	64	95	4	1	0	80	3	90	4	6	0	98	97	1	2	93	70	23	7	96	87	9	4	-	-	-	-	-	-	-	-	-	-	-					
Aruba	1990	63	50	-	-	-	-	-	-	-	-	-	-	100	100	0	0	100	100	0	0	100	100	0	0	42	42	-	-	-	-	-	-	-	-						
	2000	91	47	-	-	-	-	-	-	-	-	-	-	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-						
	2008	105	47	-	-	-	-	-	-	-	-	-	-	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-						
Australia	1990	17 091	85	100	0	0	100	0	100	100	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	3 983	3 983	-	-	-	-	-	-	-	-	-					
	2000	19 171	87	100	0	0	100	0	100	100	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
	2008	21 074	89	100	0	0	100	0	100	100	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
Austria	1990	7 671	66	100	0	0	100	0	100	100	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	667	667	-	-	-	-	-	-	-	-	-					
	2000	8 005	66	100	0	0	100	0	100	100	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
	2008	8 337	67	100	0	0	100	0	100	100	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
Azerbaijan	1990	7 212	54	-	-	-	-	-	-	-	-	-	-	88	67	21	12	49	17	32	51	70	44	26	30	1 936	1 936	-	-	-	-	-	-	-	-	-					
	2000	8 121	51	63	29	0	24	1	44	44	5	51	0	88	72	16	12	59	18	41	41	74	46	28	26	-	-	-	-	-	-	-	-	-	-						
	2008	8 731	52	51	6	41	39	1	45	4	4	4	7	88	78	10	12	71	20	51	29	80	50	30	20	-	-	-	-	-	-	-	-	-	-						
Bahamas	1990	256	80	100	0	0	100	0	100	100	0	0	0	98	69	29	2	86	80	6	14	96	71	25	4	-	-	-	-	-	-	-	-	-	-	-					
	2000	305	82	100	0	0	100	0	100	100	0	0	0	98	69	29	2	86	80	6	14	96	71	25	4	-	-	-	-	-	-	-	-	-	-	-					
	2008	338	84	100	0	0	100	0	100	100	0	0	0	98	69	29	2	86	80	6	14	96	71	25	4	-	-	-	-	-	-	-	-	-	-	-					
Bahrain	1990	493	88	100	0	0	100	0	100	100	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
	2000	650	88	100	0	0	100	0	100	100	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					
	2008	776	89	100	0	0	100	0	100	100	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	-	-	-	-	-	-	-	-	-	-	-					

Country, area or territory	Year	Population (thousand)	USE OF SANITATION FACILITIES (PERCENTAGE OF POPULATION)										Number of people who gained access to improved sanitation 1990-2008 (thousand)	USE OF DRINKING-WATER SOURCES (PERCENTAGE OF POPULATION)										Number of people who gained access to improved sources of drinking-water 1990-2008 (thousand)										
			Urban					Rural						Total					Urban						Rural					Total				
			Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved				Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	
			Shared	Unimproved facilities	Shared	Shared	Unimproved facilities		Shared	Unimproved facilities	Shared	Unimproved facilities			Shared	Unimproved facilities	Shared	Unimproved facilities	Shared		Unimproved facilities	Shared	Unimproved facilities		Shared	Unimproved facilities		Shared	Unimproved facilities	Shared	Unimproved facilities	Shared		Unimproved facilities
Bangladesh	1990	115 632	20	59	27	7	7	34	16	10	40	39	18	10	33	39 704	88	28	60	12	76	0	76	24	78	6	72	22	37 807					
	2000	140 767	24	57	26	12	5	43	20	13	24	46	21	13	20		86	26	60	14	77	0	77	23	79	6	73	21						
	2008	160 000	27	56	26	15	3	52	24	16	8	53	25	15	7		85	24	61	15	78	0	78	22	80	6	74	20						
Barbados	1990	260	33	100	-	0	0	100	-	0	0	100	-	0	0	NA*	100	98	2	0	100	-	-	0	100	-	-	0	NA*					
	2000	252	36	100	-	0	0	100	-	0	0	100	-	0	0		100	100	0	0	100	-	-	0	100	-	-	0						
	2008	255	40	100	-	0	0	100	-	0	0	100	-	0	0		100	100	0	0	100	-	-	0	100	-	-	0						
Belarus	1990	10 260	66	-	-	-	-	-	2	2	-	-	-	-	-	-	100	-	-	0	99	-	-	1	100	-	-	0	NA*					
	2000	10 054	70	91	8	1	-	96	2	2	-	93	6	1	-	-	100	89	11	0	99	30	69	1	100	71	28	0	NA*					
	2008	9 679	73	91	8	1	-	97	2	1	-	93	6	1	-		100	95	5	0	99	72	27	1	100	89	11	0						
Belgium	1990	9 933	96	100	-	0	0	100	-	0	0	100	-	0	0	657	100	100	0	0	100	96	4	0	100	100	0	0	657					
	2000	10 193	97	100	-	0	0	100	-	0	0	100	-	0	0		100	100	0	0	100	99	1	0	100	100	0	0						
	2008	10 590	97	100	-	0	0	100	-	0	0	100	-	0	0		100	100	0	0	100	100	0	0	100	100	0	0						
Belize	1990	190 477	73	73	5	17	5	75	6	7	12	74	6	11	9	130	89	77	12	11	63	20	43	37	75	47	28	25						
	2000	252 488	84	84	6	8	2	81	6	6	7	82	6	7	5		95	82	13	5	83	42	41	17	89	61	28	11	155					
	2008	301 520	93	93	7	0	0	86	7	5	2	90	7	2	1		99	87	12	1	100	61	39	0	99	74	25	1						
Benin	1990	4 795	34	14	20	15	51	1	3	95	5	8	7	80	800	72	19	53	28	47	0	47	53	56	7	49	44	3 811						
	2000	6 659	38	19	28	13	40	3	6	4	87	9	14	8	69	800	78	23	55	22	59	2	57	41	66	10	56	34						
	2008	8 662	41	24	34	11	31	4	10	6	80	12	20	8	60		84	26	58	16	69	2	67	31	75	12	63	25						
Bhutan	1990	549	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	2000	561	25	87	-	9	4	54	-	35	11	62	-	29	9	-	99	81	18	1	88	45	43	12	91	54	37	9	-					
	2008	687	35	87	-	9	4	54	-	35	11	65	-	26	9	-	99	81	18	1	88	45	43	12	92	57	35	8	-					
Bolivia (Plurinational State of)	1990	6 671	56	29	38	2	31	6	10	4	80	19	26	2	53	1 156	92	78	14	8	42	14	28	58	70	50	20	30	3 668					
	2000	8 317	62	32	41	10	17	8	14	15	63	23	31	11	35		94	87	7	6	56	33	23	44	79	66	13	21						
	2008	9 694	66	34	44	16	6	9	16	25	50	25	34	20	21		96	93	3	4	67	47	20	33	86	77	9	14						
Bosnia and Herzegovina	1990	4 308	39	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	2000	3 694	43	98	0	2	0	93	1	5	1	95	1	3	1	-	99	96	3	1	96	77	19	4	97	85	12	3	-					
	2008	3 773	47	99	0	1	0	92	1	7	0	95	1	4	0		100	94	6	0	98	71	27	2	99	82	17	1						
Botswana	1990	1 352	42	58	5	25	12	20	6	21	53	36	6	22	36	666	100	39	61	0	88	13	75	12	93	24	69	7	568					
	2000	1 723	53	67	6	21	6	31	8	16	45	50	7	19	24		99	61	38	1	89	25	64	11	94	44	50	6						
	2008	1 921	60	74	7	18	1	39	11	12	38	60	9	15	16		99	80	19	1	90	35	55	10	95	62	33	5						
Brazil	1990	149 570	75	81	-	15	4	35	-	25	40	69	-	18	13		96	92	4	4	65	35	30	35	88	78	10	12	54 590					
	2000	174 174	81	84	-	12	4	36	-	30	34	75	-	15	10	50 374	97	95	2	3	75	50	25	25	93	87	6	7						
	2008	191 972	86	87	-	10	3	37	-	33	30	80	-	13	7		99	96	3	1	84	62	22	16	97	91	6	3						
British Virgin Islands	1990	17	50	100	-	0	0	100	-	0	0	100	-	0	0	6	98	97	1	2	98	97	1	2	98	97	1	2	6					
	2000	21	57	100	-	0	0	100	-	0	0	100	-	0	0		98	97	1	2	98	97	1	2	98	97	1	2						
	2008	23	61	100	-	0	0	100	-	0	0	100	-	0	0		98	97	1	2	98	97	1	2	98	97	1	2						
Brunei Darussalam	1990	257	66	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	2000	333	71	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	2008	392	75	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
Bulgaria	1990	8 819	66	100	-	0	0	98	-	2	-	-	-	1	-	NA*	100	96	4	0	99	72	27	1	100	88	12	0	NA*					
	2000	8 006	69	100	-	0	0	100	-	0	0	100	-	0	0		100	96	4	0	100	72	28	0	100	89	11	0						
	2008	7 593	71	100	-	0	0	100	-	0	0	100	-	0	0		100	96	4	0	100	-	-	0	100	-	-	0						
Burkina Faso	1990	8 814	14	28	17	42	13	2	2	6	90	6	4	11	79	1 147	73	12	61	27	36	0	36	64	41	2	39	59	7 964					
	2000	11 676	17	31	18	41	10	4	5	8	83	8	7	14	71		85	17	68	15	55	0	55	45	60	3	57	40						
	2008	15 234	20	33	20	39	8	6	7	10	77	11	10	15	64		95	21	74	5	72	0	72	28	76	4	72	24						

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				Urban					Rural					Total					Urban							Rural					Total									
				Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved				Unimproved		Open Defecation	Improved			Unimproved		Total improved	Improved			Unimproved		
				Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities		Open Defecation	Shared	Unimproved facilities	Open Defecation	Shared		Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation		Shared	Unimproved facilities			Open Defecation	Shared		Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation		Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation
Burundi	1990	5 681	6	41	18	40	1	44	4	49	3	44	5	48	3	1 214	97	32	65	3	68	1	67	32	70	3	67	30	1 837											
	2000	6 473	8	46	20	33	1	45	4	49	2	45	5	48	2		89	41	48	11	70	1	69	30	72	4	68	28												
	2008	8 074	10	49	22	27	2	46	4	49	1	46	6	47	1		83	47	36	17	71	1	70	29	72	6	66	28												
Cambodia	1990	9 690	13	38	5	9	48	5	1	5	89	9	2	5	84	3 351	52	17	35	48	33	0	33	67	35	2	33	65	5 491											
	2000	12 760	17	50	7	6	37	10	2	6	82	17	3	6	74		64	33	31	36	42	2	40	58	46	7	39	54												
	2008	14 562	22	67	9	2	22	18	4	3	75	29	5	2	64		81	55	26	19	56	5	51	44	61	16	45	39												
Cameroon	1990	12 233	41	65	20	13	2	35	8	36	21	47	13	27	13	3 222	77	25	52	23	31	2	29	69	50	11	39	50	8 009											
	2000	15 865	50	60	19	20	1	35	8	42	15	47	13	32	8		86	25	61	14	43	2	41	57	64	13	51	36												
	2008	19 088	57	56	17	26	1	35	8	47	10	47	13	35	5		92	25	67	8	51	3	48	49	74	15	59	26												
Canada	1990	27 701	77	100	-	0	0	99	-	1	-	100	-	0	0	5 558	100	100	0	0	99	-	-	1	100	-	0	0	5 558											
	2000	30 687	79	100	-	0	0	99	-	1	-	100	-	0	0		100	100	0	0	99	38	61	1	100	87	13	0												
	2008	33 259	80	100	-	0	0	99	-	1	-	100	-	0	0		100	100	0	0	99	-	-	-	-	-	-	-	0											
Cape Verde	1990	354	44	64	-	1	35	24	-	2	74	45	-	2	53	-	86	42	44	14	80	9	71	20	83	27	56	17	-											
	2000	439	53	65	-	2	33	38	-	6	56	54	-	4	42	-	85	46	39	15	82	27	55	18	84	38	46	16												
	2008	499	60	65	-	2	33	38	-	6	56	54	-	4	42		-	-	-	-	-	-	-	-	-	-	-	-												
Cayman Islands	1990	26	100	96	-	4	-	NA	NA	NA	NA	96	-	4	-	28	-	37	26	7	NA	NA	NA	NA	NA	93	67	26	7	-										
	2000	40	100	96	-	4	-	NA	NA	NA	NA	96	-	4	-		93	67	26	7	NA	NA	NA	NA	NA	93	67	26	7	-										
	2008	56	100	96	-	4	-	NA	NA	NA	NA	96	-	4	-		95	92	3	5	NA	NA	NA	NA	NA	95	92	3	5											
Central African Republic	1990	2 928	37	21	12	57	10	5	24	49	11	6	48	35	11	1 153	78	8	70	22	47	0	47	53	58	3	55	42	1 209											
	2000	3 746	38	32	18	44	6	16	8	36	40	22	12	39	27		85	7	78	15	49	0	49	51	63	3	60	37												
	2008	4 339	39	43	24	30	3	28	14	27	31	34	18	28	20		92	6	86	8	51	0	51	49	67	2	65	33												
Chad	1990	6 105	21	20	16	38	26	2	2	3	93	6	5	10	79		48	10	38	52	36	0	36	64	38	2	36	62	3 137											
	2000	8 402	23	22	18	40	20	3	4	6	87	7	7	15	71	616	60	14	46	40	41	0	41	59	45	3	42	55												
	2008	10 914	27	23	19	42	16	4	5	8	83	9	9	17	65		67	17	50	33	44	1	43	56	50	5	45	50												
Chile	1990	13 191	83	91	-	4	5	48	-	45	7	84	-	11	5	5 052	99	97	2	1	48	22	26	52	90	84	6	10	4 260											
	2000	15 419	86	96	-	2	2	71	-	25	4	92	-	6	2		99	98	1	1	66	39	27	34	94	90	4	6												
	2008	16 804	88	98	-	1	1	83	-	15	2	96	-	3	1		99	99	0	1	75	47	28	25	96	93	3	4												
China	1990	1 142 090	27	48	25	24	3	38	6	47	9	41	11	41	7	267 319	97	86	11	3	56	42	14	44	67	54	13	33	425 096											
	2000	1 266 954	36	55	28	12	5	46	7	41	6	49	15	30	6		98	92	6	2	70	59	11	30	80	71	9	20												
	2008	1 337 411	43	58	30	6	6	52	8	38	2	55	17	24	4		98	96	2	2	82	73	9	18	89	83	6	11												
Colombia	1990	33 204	68	80	14	2	4	43	4	11	42	68	11	5	16		98	98	0	2	68	59	9	32	88	86	2	12	12 192											
	2000	39 773	72	80	14	4	2	50	5	15	30	72	11	7	10		99	95	4	1	71	57	14	29	91	84	7	9												
	2008	45 012	74	81	15	2	2	55	5	18	22	74	12	7	7		99	94	5	1	73	56	17	27	92	84	8	8												
Comoros	1990	438	28	34	2	64	0	11	1	86	2	17	1	81	1	163	98	31	67	2	83	10	73	17	87	16	71	13	247											
	2000	552	28	42	2	56	0	23	2	74	1	28	2	69	1		93	45	48	7	92	17	75	8	92	25	67	8												
	2008	661	28	50	3	46	1	30	2	68	0	36	2	62	0		91	53	38	9	97	21	76	3	95	30	65	5												
Congo	1990	2 446	54	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-										
	2000	3 036	58	31	31	36	2	29	16	37	18	30	25	36	9	-	95	43	52	5	34	3	31	66	70	26	44	30	-											
	2008	3 615	61	31	31	36	2	29	16	37	18	30	25	37	8		95	43	52	5	34	3	31	66	71	28	44	29	-											
Cook Islands	1990	18	57	100	-	0	0	91	-	9	-	96	-	4	-	3	99	-	-	1	87	-	-	-	13	94	-	6	-	-										
	2000	18	65	100	-	0	0	99	-	1	-	100	-	0	0	3	99	-	-	-	87	-	-	-	13	95	-	5	-	-										
	2008	20	71	100	-	0	0	100	-	-	-	100	-	0	0	2	98	-	-	-	-	-	-	-	-	-	-	-	-	-										

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				Urban					Rural						Total					Urban						Rural					Total				
				Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved				Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	
				Shared	Unimproved facilities	Improved	Shared	Unimproved facilities		Shared	Unimproved facilities	Improved	Shared			Unimproved facilities	Shared	Unimproved facilities	Improved	Shared		Unimproved facilities	Shared	Unimproved facilities	Improved	Shared	Unimproved facilities		Shared	Unimproved facilities	Improved	Shared	Unimproved facilities		Shared
Costa Rica	1990	3 078	51	94	4	1	1	91	4	1	4	93	4	1	2	1 430	99	92	7	1	86	71	15	14	93	82	11	7	1 521						
	2000	3 931	59	95	4	0	1	94	4	0	2	95	4	0	1	1 430	99	97	2	1	89	81	8	11	95	90	5	5	1 521						
	2008	4 519	63	95	4	1	0	96	4	0	0	95	4	1	0	1 430	100	100	0	0	91	89	2	9	97	96	1	3	1 521						
	1990	12 610	40	38	25	31	6	8	28	56	20	15	29	36	2 214	90	49	41	10	67	5	62	33	76	22	54	24	6 889							
Côte d'Ivoire	2000	17 281	44	37	24	33	6	10	28	52	22	16	30	32	2 214	92	59	33	8	67	10	57	33	78	31	47	22	6 889							
	2008	20 591	49	36	24	35	5	11	29	48	23	18	32	27	2 214	93	67	26	7	68	14	54	32	80	40	40	20	6 889							
	1990	4 517	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	2000	4 505	56	99	1	0	0	98	1	0	1	99	1	0	0	—	100	96	4	0	97	77	20	3	99	88	11	1	—						
Croatia	2008	4 423	57	99	1	0	0	98	1	0	1	99	1	0	0	—	100	96	4	0	97	77	20	3	99	88	11	1	—						
	1990	10 587	73	86	5	8	1	64	10	20	6	80	6	12	2	1 727	93	77	16	7	53	30	23	47	82	64	18	18	1 851						
	2000	11 087	76	90	5	4	1	73	12	10	5	86	7	5	2	1 727	95	80	15	5	73	44	29	27	90	71	19	10	1 851						
	2008	11 205	76	94	5	1	0	81	13	4	2	91	7	2	0	1 727	96	82	14	4	89	54	35	11	94	75	19	6	1 851						
Cyprus	1990	681	67	100	—	0	0	100	—	0	0	100	—	0	0	182	100	100	0	0	100	100	0	0	100	100	0	0	182						
	2000	787	69	100	—	0	0	100	—	0	0	100	—	0	0	182	100	100	0	0	100	100	0	0	100	100	0	0	182						
	2008	862	70	100	—	0	0	100	—	0	0	100	—	0	0	182	100	100	0	0	100	100	0	0	100	100	0	0	182						
	1990	10 303	75	100	0	0	0	98	2	0	0	100	0	0	0	NA*	100	97	3	0	100	—	—	0	100	—	—	0	16						
Czech Republic	2000	10 224	74	99	1	0	0	97	3	0	0	98	2	0	0	NA*	100	97	3	0	100	91	9	0	100	95	5	0	16						
	2008	10 319	73	99	1	0	0	97	3	0	0	98	2	0	0	NA*	100	97	3	0	100	91	9	0	100	95	5	0	16						
	1990	20 143	58	—	—	—	—	—	—	—	—	—	—	—	—	—	100	—	—	0	100	—	—	0	100	—	—	0	3 676						
	2000	22 859	60	58	—	42	—	60	—	40	—	59	—	41	—	—	100	81	19	0	100	71	29	0	100	77	23	0	3 676						
Democratic People's Republic of Korea	2008	23 819	63	—	—	—	—	—	—	—	—	—	—	—	—	—	100	—	—	0	100	—	—	0	100	—	—	0	3 676						
	1990	37 016	28	23	33	39	5	4	69	23	9	12	61	18	11 448	90	51	39	10	27	0	27	73	45	14	30	55	12 901							
	2000	50 829	30	23	33	40	4	13	56	18	16	19	51	14	11 448	85	38	47	15	27	1	26	73	44	12	32	56	12 901							
	2008	64 257	34	23	33	42	2	23	22	41	14	23	26	41	10	11 448	80	23	57	20	28	2	26	72	46	9	37	54	12 901						
Democratic Republic of the Congo	1990	5 140	85	100	—	0	0	100	—	0	0	100	—	0	0	318	100	100	0	0	100	100	0	0	100	100	0	0	318						
	2000	5 335	85	100	—	0	0	100	—	0	0	100	—	0	0	318	100	—	—	0	100	100	0	0	100	—	—	0	318						
	2008	5 458	87	100	—	0	0	100	—	0	0	100	—	0	0	318	100	—	—	0	100	100	0	0	100	—	—	0	318						
	1990	560	76	73	6	10	11	45	6	2	47	66	6	8	20	80	69	11	20	69	19	50	31	77	57	20	23	350							
Denmark	2000	730	83	69	5	20	6	30	4	13	53	63	5	18	14	106	88	75	13	12	61	12	49	39	84	65	19	16	350						
	2008	849	87	63	5	32	0	10	1	28	61	56	4	32	8	106	98	82	16	2	52	3	49	48	92	72	20	8	350						
	1990	69	68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	2000	68	71	80	—	2	18	84	—	2	14	81	—	2	17	—	96	78	18	4	92	49	43	8	95	70	25	5	—						
Djibouti	2008	67	73	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—						
	1990	7 374	55	83	9	5	3	61	11	8	20	73	10	6	11	98	94	4	2	76	46	30	24	88	73	15	12	2 071							
	2000	8 830	62	85	10	2	3	69	12	6	13	79	11	3	7	2 878	92	86	6	8	80	50	20	87	72	15	13	2 071							
	2008	9 953	69	87	10	1	2	74	13	6	7	83	11	2	4	2 878	87	80	7	13	84	54	30	16	86	72	14	14	2 071						
Dominican Republic	1990	10 278	55	86	2	5	7	48	2	11	39	69	2	8	21	81	66	15	19	62	24	38	38	72	47	25	28	5 272							
	2000	12 310	60	92	3	2	3	70	3	5	22	83	3	3	11	5 311	91	85	6	9	78	55	23	22	86	73	13	14	5 272						
	2008	13 481	66	96	3	1	0	84	4	3	9	92	3	2	3	5 311	97	96	1	3	88	74	14	12	94	88	6	6	5 272						
	1990	57 785	43	91	3	2	4	57	4	22	17	72	4	13	11	96	90	6	4	86	39	47	14	90	61	29	10	28 706							
Egypt	2000	70 174	43	95	3	0	2	79	5	9	7	86	4	5	5	35 030	99	95	4	1	93	65	28	7	96	78	18	4	28 706						
	2008	81 527	43	97	3	0	0	92	6	2	0	94	5	1	0	35 030	100	99	1	0	98	87	11	2	99	92	7	1	28 706						
	1990	5 330	49	88	8	1	3	62	3	1	34	75	5	1	19	90	72	18	10	58	14	44	42	74	43	31	26	1 393							
	2000	5 945	58	89	8	0	3	74	4	0	22	83	6	0	11	1 339	92	76	16	8	68	29	39	32	82	56	26	18	1 393						
El Salvador	2008	6 134	61	89	8	1	2	83	5	0	12	87	7	0	6	1 339	94	80	14	6	76	42	34	24	87	65	22	13	1 393						

[illegible]

Country, area or territory	Year	Population (thousand)	Percentage urban population	USE OF SANITATION FACILITIES (PERCENTAGE OF POPULATION)										Number of people who gained access to improved sanitation 1990-2008 (thousand)	USE OF DRINKING-WATER SOURCES (PERCENTAGE OF POPULATION)										Number of people who gained access to improved sources of drinking-water 1990-2008 (thousand)														
				Urban					Rural						Total					Urban						Rural					Total								
				Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved				Unimproved		Open Defecation	Improved			Unimproved		Open Defecation					
				Shared	Unimproved facilities	Improved	Shared	Unimproved facilities		Shared	Unimproved facilities	Improved	Shared			Unimproved facilities	Shared	Unimproved facilities	Improved	Shared		Unimproved facilities	Improved	Shared	Unimproved facilities	Improved	Shared		Unimproved facilities	Improved	Shared	Unimproved facilities	Improved		Shared	Unimproved facilities	Improved	Shared	Unimproved facilities
Grenada	1990	96	32	96	-	4	-	97	-	3	-	97	-	3	-	97	-	3	-	97	-	3	-	97	97	7	97	93	4	3	93	75	18	-	94	81	-	6	-
Guadeloupe	2000	101	31	96	-	4	-	97	-	3	-	97	-	3	-	97	-	3	-	97	-	3	-	97	97	-	-	-	-	-	-	-	-	-	-	-	-		
	2008	104	31	96	-	4	-	97	-	3	-	97	-	3	-	97	-	3	-	97	-	3	-	97	97	-	-	-	-	-	-	-	-	-	-	-			
	1990	386	99	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	2000	429	98	94	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Guam	2008	464	98	95	-	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	1990	134	91	99	-	1	-	98	-	2	-	99	-	1	-	99	-	1	-	99	-	1	-	99	100	41	100	-	-	-	-	-	-	-	-	-	-		
	2000	155	93	99	-	1	-	98	-	2	-	99	-	1	-	99	-	1	-	99	-	1	-	99	100	-	-	-	-	-	-	-	-	-	-	-	-		
	2008	176	93	99	-	1	-	98	-	2	-	99	-	1	-	99	-	1	-	99	-	1	-	99	100	-	-	-	-	-	-	-	-	-	-	-	-		
Guatemala	1990	8 910	41	84	7	4	5	51	2	12	35	65	4	8	23	65	4	8	23	65	4	8	23	91	5 294	91	68	23	9	75	35	40	25	82	49	33	18		
	2000	11 231	45	87	7	3	3	63	2	13	22	74	4	9	13	74	4	9	13	74	4	9	13	95	5 294	95	83	12	5	84	53	31	16	89	67	22	11		
	2008	13 686	49	89	7	2	2	73	2	14	11	81	4	8	7	81	4	8	7	81	4	8	7	98	-	98	95	3	2	90	68	22	10	94	81	13	6		
	1990	6 147	28	18	23	53	6	6	4	36	54	9	4	41	41	9	4	41	41	9	4	41	87	1 315	87	21	66	13	38	0	38	62	52	6	46	48	38		
Guinea	2000	8 384	31	27	33	37	3	9	5	44	42	15	14	41	30	42	15	14	41	30	42	15	14	88	24	64	24	64	12	51	0	51	49	62	7	55	38		
	2008	9 833	34	34	42	23	1	11	6	50	33	19	18	41	22	19	18	41	22	19	18	41	89	26	63	26	63	11	61	1	60	39	71	10	61	29	3 785		
	1990	1 022	28	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	2000	1 304	30	43	7	46	4	7	0	40	53	18	2	42	38	18	2	42	38	18	2	42	79	-	79	18	61	21	45	0	45	55	5	50	45	-			
Guinea-Bissau	2008	1 575	30	49	8	41	2	9	0	48	43	21	2	46	31	21	2	46	31	21	2	46	83	-	83	27	56	17	51	1	50	49	61	9	52	39	-		
	1990	749	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	2000	756	29	85	10	4	1	77	8	14	1	79	9	11	1	79	9	11	1	79	9	11	93	-	93	75	18	7	87	54	33	13	89	60	29	11	-		
	2008	763	28	85	10	5	0	80	8	10	2	81	9	9	1	81	9	9	1	81	9	9	98	-	98	76	22	2	93	63	30	7	94	67	27	6			
Haiti	1990	7 108	29	44	45	1	10	19	12	7	62	26	21	6	47	26	21	6	47	26	21	6	62	-169	62	27	35	38	41	2	39	59	47	9	38	53	-	2 881	
	2000	8 648	36	34	35	21	10	15	9	20	56	22	18	20	40	22	18	20	40	22	18	20	67	-	67	24	43	33	49	3	46	51	55	10	45	45	-		
	2008	9 876	47	24	24	43	9	10	6	35	49	17	14	39	30	17	14	39	30	17	14	39	71	-	71	21	50	29	55	4	51	45	63	12	51	37	-		
	1990	4 901	40	68	9	12	11	28	2	12	58	44	5	12	39	44	5	12	39	44	5	12	91	3 040	91	82	9	9	59	42	17	41	72	58	14	28	-	2 765	
Honduras	2000	6 230	44	75	10	9	6	47	4	11	38	59	7	10	24	59	7	10	24	59	7	10	93	-	93	89	4	7	69	59	10	31	80	72	8	20	-	-	
	2008	7 319	48	80	11	7	2	62	5	11	22	71	8	9	12	71	8	9	12	71	8	9	95	-	95	94	1	5	77	72	5	23	86	83	3	14	-	-	
	1990	10 365	66	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	98	-	98	94	4	2	91	72	19	9	96	86	10	4	-	62	
	2000	10 215	65	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	100	-	100	95	5	0	98	86	12	2	99	92	7	1	-	-	
Iceland	2008	10 012	68	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	100	-	100	95	5	0	100	93	7	0	100	94	6	0	-	-	
	1990	255	91	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	100	-	100	100	0	0	100	100	0	0	100	100	0	0	-	-	
	2000	281	92	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	100	-	100	100	0	0	100	100	0	0	100	100	0	0	-	-	
	2008	315	92	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	0	100	-	0	100	-	100	100	0	0	100	100	0	0	100	100	0	0	-	-	
India	1990	862 162	26	49	19	4	28	7	1	2	90	18	6	2	74	18	6	2	74	18	6	2	90	-	90	52	38	10	66	8	58	34	72	19	53	28	-	418 886	
	2000	1 042 590	28	52	20	6	22	14	3	4	79	25	8	4	63	25	8	4	63	25	8	4	93	-	93	50	43	7	76	9	67	24	81	20	61	19	-	-	
	2008	1 181 412	29	54	21	7	18	21	4	6	69	31	9	6	54	31	9	6	54	31	9	6	96	-	96	48	48	4	84	11	73	16	88	22	66	12	-	-	
	1990	1 773 385	31	58	8	16	18	22	7	23	48	33	7	21	39	33	7	21	39	33	7	21	92	-	92	24	68	8	62	2	60	38	71	9	62	29	-	-	
Indonesia	2000	205 280	42	63	8	12	17	30	9	19	42	44	9	16	31	44	9	16	31	44	9	16	90	-	90	31	59	10	67	5	62	33	77	16	61	23	-	55 933	
	2008	227 345	52	67	9	8	16	36	11	17	36	52	10	12	26	52	10	12	26	52	10	12	89	-	89	37	52	11	71	8	63	29	80	23	57	20	-	-	
	1990	56 733	56	86	-	14	-	78	-	22	-	83	-	17	-	83	-	17	-	83	-	17	98	-	98	96	2	2	83	69	14	17	91	84	7	9	-	-	
	2000	66 903	64	86	-	14	-	78	-	22	-	83	-	17	-	83	-	17	-	83	-	17	98	-	98	96	2	2	83	69	14	17	93	86	7	7	-	-	
Iran (Islamic Republic of)	2008	73 312	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	1990	18 079	70	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	2000	24 652	68	76	19	5	0	54	10	21	15	69	16	10	5	69	16	10	5	69	16	10	95	-	95	92	3	5	49	37	12	51	80	74	6	20	-	-	
	2008	30 096	67	76	19	5	0	66	12	17	5	73	17	8	2	73	17	8	2	73	17	8	91	-	91	90	1	9	55	49	6	45	79	76	3	21	-	-	
Iraq	1990	24 652	68	76	19	5	0	54	10	21	15	69	16	10	5	69	16	10	5	69	16	10	95	-	95	92	3	5	49	37	12	51	80	74	6	20	-	-	
	2000	24 652	68	76	19	5	0	66	12	17	5	73	17	8	2	73	17	8	2	73	17	8	91	-	91	90	1	9	55	49	6	45							

Country, area or territory	Year	Population (thousand)	Percentage urban population	USE OF SANITATION FACILITIES (PERCENTAGE OF POPULATION)										USE OF DRINKING-WATER SOURCES (PERCENTAGE OF POPULATION)										Number of people who gained access to improved sanitation 1990-2008 (thousand)	Number of people who gained access to improved sources of drinking-water 1990-2008 (thousand)													
				Urban					Rural					Total					Urban							Rural					Total							
				Improved			Unimproved		Shared	Improved			Unimproved		Other improved	Improved			Unimproved		Total improved	Improved				Unimproved		Total improved	Improved			Unimproved		Total improved				
				Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation		Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities		Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation		Unimproved facilities	Open Defecation			Unimproved facilities	Open Defecation		Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities		Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities
Ireland	1990	3 515	57	100	-	0	0	98	-	2	0	0	99	-	1	0	913	100	100	0	100	100	0	100	100	0	100	100	0	922								
Israel	2000	3 804	59	100	-	0	0	98	-	2	0	0	99	-	1	0	2 538	100	100	0	100	100	0	100	100	0	100	100	0	2 538								
	2008	4 437	61	100	-	0	0	98	-	2	0	0	99	-	1	0		100	100	0	100	100	0	100	100	0	100	100	0		2 538							
	1990	4 514	90	100	-	0	0	100	-	0	0	0	100	-	0	0		100	100	0	100	100	0	100	100	0	100	100	0			2 538						
	2000	6 084	91	100	-	0	0	100	-	0	0	0	100	-	0	0		100	100	0	100	100	0	100	100	0	100	100	0				2 538					
Italy	2008	7 051	92	100	-	0	0	100	-	0	0	0	100	-	0	0	100	100	0	100	100	0	100	100	0	100	100	0	2 606									
	1990	56 998	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	0	100	100	0	100	100	0	100	100		0	2 606							
	2000	57 116	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	0	100	100	0	100	100	0	100	100		0		2 606						
	2008	59 604	68	-	-	-	-	-	-	-	-	-	-	-	-	-	-	100	100	0	100	100	0	100	100	0	100	100		0			2 606					
Jamaica	1990	2 364	49	82	16	1	1	83	12	5	0	0	83	14	3	0	285	98	89	9	2	88	33	55	12	93	61	32	7	347								
	2000	2 568	52	82	16	2	0	83	12	5	0	82	14	4	0	0		98	90	8	2	88	41	47	12	93	66	27	7		347							
	2008	2 708	53	82	16	2	0	84	12	3	1	83	14	3	0	0		98	91	7	2	89	47	42	11	94	70	24	6			347						
	1990	123 191	63	100	-	0	0	100	-	0	0	0	100	-	0	0		0	100	97	3	0	100	86	14	0	100	93	7				0	4 102				
Japan	2000	126 706	65	100	-	0	0	100	-	0	0	0	100	-	0	0	4 102	100	98	2	0	100	91	9	0	100	96	4	0	4 102								
	2008	127 293	66	100	-	0	0	100	-	0	0	0	100	-	0	0	100	99	1	0	100	95	5	0	100	98	2	0	4 102									
	1990	3 254	72	98	2	0	0	0	-	-	-	-	-	-	-	-	-	99	98	1	1	91	87	4	9	97	95	2			3	2 734						
	2000	4 853	78	98	2	0	0	0	96	1	1	2	0	98	2	0	0	-	98	96	2	2	91	82	9	9	96	93			3		4	2 734				
Jordan	2008	6 136	78	98	2	0	0	0	97	1	2	0	98	2	0	0	98	94	4	2	91	79	12	9	96	91	5	4		2 734								
	1990	16 530	56	96	3	1	0	0	97	1	0	2	96	2	1	1	NA*	99	91	8	1	92	28	64	8	96	63	33	4		NA*							
	2000	14 957	56	97	3	0	0	0	97	1	1	1	97	2	1	0	99	87	12	1	91	26	65	9	96	60	36	4	NA*									
	2008	15 521	58	97	3	0	0	0	98	1	1	1	97	2	1	0	99	82	17	1	90	24	66	10	95	58	37	5				NA*						
Kenya	1990	23 433	18	24	45	28	3	27	15	41	17	26	20	40	14	5 925	91	57	34	9	32	10	22	68	43	19	24	57		12 795								
	2000	31 441	20	26	48	23	3	30	16	36	18	29	22	34	15	87	43	11	32	57	52	18	34	48	59	19	40	41			12 795							
	2008	38 765	22	27	51	20	2	32	18	32	18	31	25	29	15	83	44	39	17	52	12	40	48	59	19	40	41	12 795										
	1990	72	35	36	7	16	41	21	2	12	65	26	4	13	57	76	46	30	24	33	13	20	67	48	25	23	52		-									
Kiribati	2000	84	43	47	9	3	41	22	2	21	55	33	5	13	49	-	77	48	29	23	50	21	29	50	62	33	29			38		-						
	2008	97	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	-							
	1990	2 143	98	100	-	0	0	0	100	-	0	0	0	100	-	0	0	99	-	-	1	99	-	-	1	99	-	-		1			768					
	2000	2 228	98	100	-	0	0	0	100	-	0	0	0	100	-	0	0	99	-	-	1	99	-	-	1	99	-	-	1	768								
Kuwait	2008	2 919	98	100	-	0	0	0	100	-	0	0	0	100	-	0	0	99	-	-	1	99	-	-	1	99	-	-	1			768						
	1990	4 395	38	94	5	1	0	-	-	-	-	-	-	-	-	-	98	75	23	2	-	25	-	-	-	44	-	-	-									
	2000	4 955	35	94	5	1	0	0	93	2	5	0	93	3	4	0	98	82	16	2	73	30	43	27	82	48	34	18			-							
	2008	5 414	36	94	5	1	0	0	93	2	5	0	93	3	4	0	99	89	10	1	85	34	51	15	90	54	36	10		-								
Lao People's Democratic Republic	1990	4 207	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				-	-					
	2000	5 403	22	62	4	8	26	16	1	8	75	26	2	8	64	-	77	35	42	23	40	5	35	60	48	12	36	52	-									
	2008	6 205	31	86	5	3	6	38	2	8	52	53	3	6	38	-	72	55	17	28	51	4	47	49	57	20	37	43			-							
	1990	2 663	69	-	-	-	-	-	-	-	-	-	-	-	-	-	100	-	-	0	96	-	-	4	99	-	-	1		NA*								
Latvia	2000	2 374	68	82	13	5	0	71	3	26	0	78	10	12	0	0	100	93	7	0	96	59	37	4	99	82	17	1				NA*						
	2008	2 259	68	82	13	5	0	71	3	26	0	78	10	12	0	0	100	93	7	0	96	59	37	4	99	82	17	1	NA*									
	1990	2 974	83	100	-	0	0	-	-	-	-	-	-	-	-	-	100	100	0	0	100	-	-	0	100	-	-	0			0							
	2000	3 772	86	100	-	0	0	87	-	-	-	-	-	-	-	-	100	100	0	0	100	85	15	0	100	98	2	0		0								
Lebanon	2008	4 194	87	100	-	0	0	-	-	-	-	-	-	-	-	-	100	100	0	0	100	-	-	0	100	-	-	0				0						
	1990	1 602	14	29	25	37	9	32	4	13	51	32	7	16	45	-	88	19	69	12	57	1	56	43	61	4	57	39	39									
	2000	1 889	20	35	30	27	8	28	4	17	51	29	9	20	42	-	92	39	53	8	69	3	66	31	74	10	64	26			26							
	2008	2 049	25	40	35	17	8	25	3	21	51	29	11	20	40	-	97	59	38	3	81	5	76	19	85	19	66	15		15								

Country, area or territory	USE OF SANITATION FACILITIES (PERCENTAGE OF POPULATION)				Number of people who gained access to improved sanitation 1990-2008 (thousand)	USE OF DRINKING-WATER SOURCES (PERCENTAGE OF POPULATION)										Number of people who gained access to improved sources of drinking-water 1990-2008 (thousand)												
	Year	Population (thousand)	Percentage urban population			Urban					Rural						Total											
			Improved	Unimproved		Improved			Unimproved		Improved			Unimproved			Total improved	Total										
						Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation	Total improved	Piped on premises	Other improved	Total improved				Piped on premises	Other improved								
Liberia	1990	2 167	45	21	43	15	3	11	18	68	11	16	29	44	86	21	65	14	34	3	31	66	58	11	47	42	1 323	
	2000	2 824	54	23	30	23	4	11	12	73	14	18	22	46	82	11	71	18	44	2	42	56	65	7	58	35		
	2008	3 793	60	25	20	30	4	12	7	77	17	20	14	49	79	3	76	21	51	0	51	49	68	2	66	32		
Libyan Arab Jamahiriya	1990	4 365	76	97	3	-	96	-	4	-	97	-	3	-	54	-	-	46	55	-	-	45	54	-	-	46	-	
	2000	5 346	76	97	3	-	96	-	4	-	97	-	3	-	54	-	-	46	55	-	-	45	54	-	-	46		
	2008	6 294	78	97	3	-	96	-	4	-	97	-	3	-	54	-	-	46	55	-	-	45	54	-	-	46		
Lithuania	1990	3 698	68	-	-	-	-	-	-	-	-	-	-	-	-	89	-	-	-	49	-	-	-	76	-	-	-	
	2000	3 501	67	-	-	-	-	-	-	-	-	-	-	-	-	92	-	-	-	55	-	-	-	80	-	-		
	2008	3 321	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Luxembourg	1990	382	81	100	-	0	100	-	0	0	100	-	0	0	100	100	0	0	100	98	2	0	100	100	0	0	99	
	2000	437	84	100	-	0	100	-	0	0	100	-	0	0	100	100	0	0	100	98	2	0	100	100	0	0		
	2008	481	82	100	-	0	100	-	0	0	100	-	0	0	100	100	0	0	100	98	2	0	100	100	0	0		
Madagascar	1990	11 273	24	14	26	35	25	6	9	8	77	8	13	14	65	78	25	53	22	16	0	16	84	31	6	25	69	4 341
	2000	15 275	27	15	27	37	21	8	14	24	54	10	18	27	45	73	19	54	27	24	2	22	76	37	7	30	63	
	2008	19 111	29	15	28	39	18	10	17	35	38	11	20	37	32	71	14	57	29	29	4	25	71	41	7	34	59	
Malawi	1990	9 451	12	50	41	5	4	41	17	7	35	42	20	7	31	90	45	45	10	33	2	31	67	40	7	33	60	8 096
	2000	11 831	15	51	42	4	3	50	21	7	22	50	24	7	19	93	34	59	7	58	2	56	42	63	7	56	37	
	2008	14 846	19	51	42	5	2	57	24	8	11	56	27	8	9	95	26	69	5	77	2	75	23	80	7	73	20	
Malaysia	1990	18 103	50	88	4	7	1	81	3	7	9	84	3	8	5	94	86	8	6	82	59	23	18	88	72	16	12	11 083
	2000	23 274	62	94	4	1	1	90	4	2	4	92	4	2	2	99	95	4	1	93	80	13	7	97	89	8	3	
	2008	27 014	70	96	4	0	95	4	0	1	96	4	0	0	0	100	99	1	0	99	91	8	1	100	97	3	0	
Maldives	1990	216	26	100	-	0	0	58	-	12	30	69	-	9	22	100	47	53	0	87	0	87	13	90	12	78	10	84
	2000	272	28	100	-	0	0	74	-	7	19	81	-	5	14	100	68	32	0	87	0	87	13	91	19	72	9	
	2008	305	38	100	-	0	0	96	-	0	4	98	-	0	2	99	95	4	1	86	2	84	14	91	37	54	9	
Mali	1990	8 655	23	36	20	40	4	23	10	31	36	26	12	33	29	54	17	37	46	22	0	22	78	29	4	25	71	4 605
	2000	10 523	28	41	23	32	4	28	12	32	28	32	15	32	21	69	26	43	31	34	1	33	66	44	8	36	56	
	2008	12 706	32	45	25	26	4	32	14	33	21	36	18	30	16	81	34	47	19	44	1	43	56	56	12	44	44	
Malta	1990	360	90	100	-	0	0	100	-	0	0	100	-	0	0	100	100	0	0	98	98	0	2	100	100	0	0	47
	2000	389	92	100	-	0	100	-	0	0	100	-	0	0	0	100	100	0	0	100	100	0	0	100	100	0	0	
	2008	407	94	100	-	0	0	100	-	0	0	100	-	0	0	100	100	0	0	100	100	0	0	100	100	0	0	
Marshall Islands	1990	47	65	77	11	-	-	41	9	-	-	64	10	26	-	94	-	-	6	97	-	-	3	95	-	-	5	12
	2000	52	66	80	12	-	-	48	11	-	-	69	12	19	-	93	-	-	7	98	-	-	2	95	-	-	5	
	2008	61	68	83	12	1	4	53	12	0	35	73	12	1	14	92	1	91	8	99	0	99	1	94	1	93	6	
Martinique	1990	359	98	-	-	-	-	-	-	-	-	-	-	-	-	100	99	1	0	-	-	-	-	-	-	-	-	-
	2000	385	98	94	-	6	-	-	-	-	-	-	-	-	-	100	99	1	0	-	-	-	-	-	-	-	-	
	2008	403	98	95	-	5	-	-	-	-	-	-	-	-	-	100	99	1	0	-	-	-	-	-	-	-	-	
Mauritania	1990	1 988	40	29	10	38	23	8	3	31	58	16	6	34	44	36	15	21	64	26	0	26	74	30	6	24	70	979
	2000	2 604	40	38	14	28	20	9	4	19	68	21	8	22	49	45	26	19	55	37	8	29	63	40	15	25	60	
	2008	3 215	41	50	18	16	16	9	4	8	79	26	10	11	53	52	34	18	48	47	14	33	53	49	22	27	51	
Mauritius	1990	1 056	44	93	7	0	0	90	7	3	0	91	7	2	0	100	100	0	0	99	99	0	1	99	99	0	1	221
	2000	1 195	43	93	7	0	0	90	7	3	0	91	7	2	0	100	100	0	0	99	99	0	1	99	99	0	1	
	2008	1 280	42	93	7	0	0	90	7	3	0	91	7	2	0	100	100	0	0	99	99	0	1	99	99	0	1	
Mexico	1990	83 404	71	80	6	4	10	30	7	9	54	66	6	5	23	94	88	6	6	64	50	14	36	85	77	8	15	31 149
	2000	99 531	75	85	7	2	6	51	12	6	31	76	8	4	12	95	90	5	5	77	62	15	23	90	83	7	10	
	2008	108 555	77	90	7	1	2	68	16	4	12	85	9	2	4	96	92	4	4	87	72	15	13	94	87	7	6	

[illegible]

[illegible]

Country, area or territory	USE OF SANITATION FACILITIES (PERCENTAGE OF POPULATION)										USE OF DRINKING-WATER SOURCES (PERCENTAGE OF POPULATION)										Number of people who gained access to improved sanitation 1990-2008 (thousand)	Number of people who gained access to improved sources of drinking-water 1990-2008 (thousand)				
	Year	Population (thousand)	Percentage urban population			Urban			Rural			Total			Urban			Rural					Total			
			Improved	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation	Improved	Shared	Unimproved facilities	Open Defecation	Improved	Shared	Unimproved facilities	Open Defecation	Improved	Shared	Unimproved facilities	Open Defecation			Improved	Shared	Unimproved facilities	Open Defecation
Seychelles	1990 2000 2008	72 81 84	49 51 56	94 97	— — —	5 2	1 1	— — —	— — —	— — —	— — —	— — —	— — —	— — —	84 100 100	84 100 100	0 0 0	16 0 0	— — —	— — —	— — —	— — —	— — —	— — —	— — —	
Sierra Leone	1990 2000 2008	4 084 4 228 5 560	33 36 38	21 24 24	41 47	32 25	6 4	— — —	— — —	— — —	— — —	— — —	— — —	— — —	75 86	28 15	47 71	25 14	44 26	2 1	42 25	55 49	11 6	44 43	45 51	
Singapore	1990 2000 2008	3 016 4 018 4 615	100 100 100	99 100 100	— — —	0 0 0	0 0 0	— — —	— — —	— — —	— — —	— — —	— — —	— — —	100 100 100	100 100 100	0 0 0	0 0 0	NA NA NA	NA NA NA	NA NA NA	100 100 100	100 100 100	0 0 0	0 0 0	1 599
Slovakia	1990 2000 2008	5 256 5 379 5 400	56 56 56	100 100 100	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	100 100 100	96 94	4 6	0 0	0 0	100 100	92 94	8 6	0 0	6 6	0 0	—
Slovenia	1990 2000 2008	1 927 1 985 2 015	50 51 48	100 100 100	— — —	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	100 100 100	100 100 100	0 0 0	0 0 0	99 99 99	0 0 0	1 1 1	100 100 100	0 0 0	0 0 0	0 0 1	68
Solomon Islands	1990 2000 2008	314 416 511	14 16 18	98 98 98	— — —	2 2 2	— — —	— — —	— — —	— — —	— — —	— — —	— — —	— — —	94 76	76 —	18 —	6 —	65 —	1 —	64 —	35 —	70 —	13 —	57 —	—
Somalia	1990 2000 2008	6 596 7 394 8 926	30 33 37	45 52 57	26 30 32	16 15	3 3	— — —	— — —	— — —	— — —	— — —	— — —	— — —	36 67	9 51	27 16	18 33	17 9	0 0	— —	— —	— —	— —	— —	—
South Africa	1990 2000 2008	36 745 44 872 49 668	52 57 61	80 82 84	10 10 10	8 6 4	2 2 2	58 61 65	8 8 9	10 10 9	24 21 17	69 73 77	9 8 10	13 10 5	98 98 99	85 87 89	13 11 10	2 2 1	66 71 78	25 28 32	41 43 46	34 29 22	83 86 91	56 62 67	27 24 24	14 699
Spain	1990 2000 2008	38 839 40 264 44 486	75 76 77	100 100 100	— — —	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	0 0 0	100 100 100	— — —	— — —	100 100 100	99 99 99	1 1 1	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	100 99 100	99 1 0	1 0 0	5 647
Sri Lanka	1990 2000 2008	17 290 18 767 20 061	17 16 15	85 87 88	7 7 7	4 3 3	4 8 2	16 8 92	2 3 3	15 8 4	16 8 4	70 82 91	3 4 4	13 7 1	91 95 98	37 53 65	54 42 33	9 5 2	62 77 88	6 15 22	6 62 66	38 23 12	67 80 90	11 21 28	56 59 62	6 470
Sudan	1990 2000 2008	27 091 34 904 41 348	27 36 43	63 58 55	— — —	27 25	10 20	23 20 18	— — —	— — —	29 26 24	34 34 34	— — —	28 26 25	85 73 64	76 60 47	9 13 17	15 27 36	58 55 52	19 16 14	39 39 38	42 45 48	65 61 57	34 32 29	35 33 43	5 959
Suriname	1990 2000 2008	407 467 515	68 72 75	90 90 90	9 9 9	1 1 1	0 0 0	— — —	— — —	— — —	— — —	— — —	— — —	— — —	99 98 97	94 91 78	5 7 19	1 2 3	— 73 81	— 49 45	— 24 36	— 27 19	— 91 93	— 12 70	— 9 23	—
Swaziland	1990 2000 2008	864 1 080 1 168	23 23 25	— 60 61	— 31 32	— 6 5	— 3 2	— 46 53	— 18 20	— 8 6	— 28 21	— 49 55	— 21 23	— 8 6	— 86 92	— 58 67	— 28 25	— 14 8	— 46 61	— 13 21	— 33 40	— 54 39	— 55 69	— 32 37	— 45 31	—
Sweden	1990 2000 2008	8 559 8 860 9 205	83 84 85	100 100 100	— — —	0 0 0	0 0 0	100 100 100	— — —	— — —	— — —	100 100 100	— — —	— — —	100 100 100	100 100 100	0 0 0	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	100 100 100	0 0 0	0 0 0	646
Switzerland	1990 2000 2008	6 715 7 184 7 541	73 73 73	100 100 100	— — —	0 0 0	0 0 0	100 100 100	— — —	— — —	— — —	100 100 100	— — —	— — —	100 100 100	100 100 100	0 0 0	0 0 0	100 100 100	0 0 0	0 0 0	0 0 0	100 100 100	0 0 0	0 0 0	827

Country, area or territory	Year	Population (thousand)	Percentage urban population	USE OF SANITATION FACILITIES (PERCENTAGE OF POPULATION)										USE OF DRINKING-WATER SOURCES (PERCENTAGE OF POPULATION)										Number of people who gained access to improved sanitation 1990-2008 (thousand)	Number of people who gained access to improved sources of drinking-water 1990-2008 (thousand)																																																																																																																																																																																																																																	
				Urban					Rural					Total					Urban							Rural					Total																																																																																																																																																																																																																											
				Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved			Unimproved		Open Defecation	Improved				Unimproved		Open Defecation	Improved			Unimproved		Total improved	Improved			Unimproved																																																																																																																																																																																																																				
				Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities		Open Defecation	Shared	Unimproved facilities	Open Defecation	Shared		Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation		Shared	Unimproved facilities			Open Defecation	Shared		Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation		Total improved	Piped on premises	Other improved	Unimproved	Total improved	Piped on premises	Other improved	Unimproved	Total improved	Piped on premises	Other improved	Unimproved																																																																																																																																																																																																												
																																															Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities	Open Defecation	Unimproved facilities

Country, area or territory	USE OF SANITATION FACILITIES (PERCENTAGE OF POPULATION)				USE OF DRINKING-WATER SOURCES (PERCENTAGE OF POPULATION)												Number of people who gained access to improved sanitation 1990-2008 (thousand)	Number of people who gained access to improved sources of drinking-water 1990-2008 (thousand)																
	Year	Population (thousand)	Percentage urban population	Urban						Rural						Total																		
				Improved			Unimproved			Improved			Unimproved			Improved			Unimproved			Total												
				Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation	Total improved			Piped on premises	Other improved	Total improved	Piped on premises	Other improved	Total improved	Piped on premises	Other improved	Total improved							
1990	51 583	67	97	2	1	0	91	4	5	0	0	95	3	2	0	NA*	99	93	6	1	99	92	7	1	92	50	42	8	97	78	19	3	-	
2000	48 870	67	97	2	1	0	91	4	5	0	0	95	3	2	0	NA*	99	92	7	1	99	92	7	1	92	50	42	8	97	78	19	3	-	
2008	45 992	68	97	2	1	0	90	4	6	0	0	95	3	2	0	NA*	98	87	11	2	98	87	11	2	97	25	72	3	98	67	31	2	-	
United Arab Emirates	1990	1 867	79	98	2	0	0	95	5	0	0	97	3	0	0	2 539	100	-	-	0	100	-	-	0	100	-	-	0	100	-	-	0	2 618	
2000	3 238	78	98	2	0	0	95	5	0	0	0	97	3	0	0	2 539	100	80	20	0	100	70	30	0	100	70	30	0	100	78	22	0	2 618	
2008	4 485	78	98	2	0	0	95	5	0	0	0	97	3	0	0	2 539	100	80	20	0	100	70	30	0	100	70	30	0	100	78	22	0	2 618	
United Kingdom of Great Britain and Northern Ireland	1990	57 237	89	100	-	0	-	100	-	0	-	100	-	0	-	3 993	100	100	0	0	100	98	2	0	100	98	2	0	100	100	0	0	3 993	
2000	58 907	89	100	-	0	-	100	-	0	-	-	100	-	0	-	3 993	100	100	0	0	100	98	2	0	100	98	2	0	100	100	0	0	3 993	
2008	61 231	90	100	-	0	-	100	-	0	-	-	100	-	0	-	3 993	100	100	0	0	100	98	2	0	100	98	2	0	100	100	0	0	3 993	
United Republic of Tanzania	1990	25 455	19	27	25	45	3	23	23	44	10	24	24	23	44	9	4 087	94	34	60	6	46	1	45	54	55	4	54	55	7	48	45	8 941	
2000	34 131	22	29	28	41	2	22	21	43	14	24	24	24	23	42	11	4 087	86	28	58	14	45	2	43	55	54	5	54	54	8	46	46	8 941	
2008	42 484	25	32	30	36	2	21	21	41	17	24	24	24	23	40	13	4 087	80	23	57	20	45	3	42	55	54	5	54	54	8	46	46	8 941	
United States of America	1990	254 865	75	100	-	0	0	99	-	1	-	100	-	0	-	56 801	100	97	3	0	94	46	48	6	99	84	15	1	99	84	15	1	56 233	
2000	287 842	79	100	-	0	0	99	-	1	-	100	-	0	0	-	56 801	100	97	3	0	94	46	48	6	99	86	13	1	99	86	13	1	56 233	
2008	311 666	82	100	-	0	0	99	-	1	-	100	-	0	0	-	56 801	100	97	3	0	94	46	48	6	99	88	11	1	99	88	11	1	56 233	
Uruguay	1990	3 110	89	95	0	1	4	83	1	1	15	94	0	1	5	426	98	94	4	2	79	50	29	21	96	89	7	4	96	89	7	4	364	
2000	3 321	91	97	0	1	2	90	1	1	8	96	0	1	3	0	426	99	96	3	1	88	73	15	12	98	94	4	2	98	94	4	2	364	
2008	3 349	92	100	0	0	0	99	1	0	0	100	0	0	0	0	426	100	98	2	0	100	92	8	0	100	98	2	0	100	98	2	0	364	
Uzbekistan	1990	20 515	40	95	-	5	0	76	-	24	0	84	-	16	0	9 958	97	86	11	3	85	37	48	15	90	57	33	10	90	57	33	10	5 193	
2000	24 776	37	97	-	3	0	87	-	13	0	91	-	9	0	0	9 958	98	86	12	2	83	32	51	17	89	52	37	11	89	52	37	11	5 193	
2008	27 191	37	100	-	0	0	100	-	0	0	100	-	0	0	0	9 958	98	85	13	2	81	26	55	19	87	48	39	13	87	48	39	13	5 193	
Vanuatu	1990	149	19	-	-	-	-	-	-	-	-	-	-	-	-	-	91	79	12	9	49	27	22	51	57	37	20	43	57	37	20	43	107	
2000	190	22	57	25	18	0	36	10	51	3	41	13	44	2	2	-	93	79	14	7	66	31	35	34	72	41	31	28	72	41	31	28	107	
2008	234	25	66	29	5	0	48	13	36	3	52	17	29	2	4	-	96	79	17	4	79	33	46	21	83	44	39	17	83	44	39	17	107	
Venezuela (Bolivarian Republic of)	1990	19 741	84	89	-	7	4	45	-	14	41	82	-	8	10	-	93	87	6	7	71	44	27	29	90	80	10	10	90	80	10	10	-	
2000	24 408	90	93	-	2	5	54	-	6	40	89	-	2	9	-	-	94	89	5	6	74	50	24	26	92	85	7	8	92	85	7	8	-	
2008	28 121	93	-	-	-	-	-	-	-	-	-	-	-	-	-	-	94	89	5	6	74	50	24	26	92	85	7	8	92	85	7	8	-	
Viet Nam	1990	66 247	20	61	3	10	26	29	2	23	46	35	2	21	42	-	88	45	43	12	51	0	51	49	58	9	49	42	58	9	49	42	43 227	
2000	78 663	24	79	4	7	10	50	3	22	25	57	3	19	21	6	42 135	94	51	43	6	74	5	69	26	79	16	63	21	79	16	63	21	43 227	
2008	87 096	28	94	5	1	0	67	4	21	8	75	4	15	6	-	42 135	99	56	43	1	92	9	83	8	94	22	72	6	94	22	72	6	43 227	
Wallis and Futuna Islands	1990	14	0	NA	NA	NA	NA	96	-	0	4	96	-	0	4	0	NA	NA	NA	NA	100	80	20	0	100	80	20	0	100	80	20	0	0	0
2000	15	0	NA	NA	NA	NA	96	-	0	4	96	-	0	4	-	0	NA	NA	NA	NA	100	80	20	0	100	80	20	0	100	80	20	0	0	0
2008	15	0	NA	NA	NA	NA	96	-	0	4	96	-	0	4	-	0	NA	NA	NA	NA	100	81	19	0	100	81	19	0	100	81	19	0	0	0
West Bank and Gaza Strip	1990	2 154	68	-	-	8	1	84	-	14	2	89	-	-	-	-	100	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	3 149	71	91	-	9	0	84	-	16	0	89	-	-	10	1	-	95	88	7	5	88	64	24	12	93	81	12	7	93	81	12	7	-	
2008	4 147	72	91	-	9	0	84	-	16	0	89	-	-	11	0	-	91	84	7	9	91	64	27	9	91	78	13	9	91	78	13	9	-	
Yemen	1990	12 314	21	64	1	29	6	6	1	39	54	18	1	37	44	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2000	18 182	26	81	2	13	4	21	2	34	43	37	2	28	33	-	9 701	82	63	19	18	59	20	39	41	65	31	34	35	65	31	34	35	-	
2008	22 917	31	94	2	1	3	33	3	29	35	52	3	20	25	-	9 701	72	54	18	28	57	17	40	43	62	28	34	38	62	28	34	38	-	
Zambia	1990	7 910	39	62	24	11	3	36	8	14	42	46	14	13	27	-	89	49	40	11	23	1	22	77	49	20	29	51	49	20	29	51	3 696	
2000	10 467	35	60	23	15	2	40	8	19	33	47	13	18	22	-	2 545	88	42	46	12	36	1	35	64	54	15	39	46	54	15	39	46	-	
2008	12 620	35	59	22	17	2	43	9	22	26	49	14	19	18	-	2 545	87	37	50	13	46	1	45	54	60	14	46	40	60	14	46	40	-	
1990	10 461	29	58	41	1	0	37	15	0	48	43	23	0	34	-	-	99	94	5	1	70	7	63	30	78	32	46	22	80	32	46	22	-	
2000	12 455	34	57	41	1	1	37	15	5	43	44	24	3	29	-	985	99	91	8	1	71	6	65	29	80	35	45	20	80	35	45	20	2 060	
2008	12 463	37	56	40	2	2	37	15	9	39	44	24	4	24	7	-	99	88	11	1	72	5	67	28	82	36	46	22	82	36	46	22	-	

PROGRESS ON SANITATION AND DRINKING-WATER: REGIONAL AND GLOBAL ESTIMATES FOR 1990, 2000 AND 2008

MDG regions and the World	USE OF SANITATION FACILITIES (PERCENTAGE OF POPULATION)			USE OF DRINKING-WATER SOURCES (PERCENTAGE OF POPULATION)												Number of people who gained access to improved sanitation 1990-2008 (thousand)	Number of people who gained access to improved sources of drinking-water 1990-2008 (thousand)												
	Year	Population (thousand)	Percentage urban population	Urban						Rural								Total											
				Improved			Unimproved			Improved			Unimproved					Improved			Unimproved			Improved			Unimproved		
				Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation	Shared	Unimproved facilities	Open Defecation	Total improved	Piped on premises	Other improved			Total improved	Piped on premises	Other improved	Total improved	Piped on premises	Other improved	Total improved	Piped on premises	Other improved	Total improved		
Sub-Saharan Africa	1990	517 961	28	43	29	17	11	21	10	22	47	28	16	20	36	83	43	40	17	36	4	32	64	49	15	34	51	237 812	
	2000	674 693	33	43	30	17	10	23	11	23	43	29	18	21	32	82	38	44	18	42	4	38	58	55	15	40	45		
	2008	822 436	37	44	31	17	8	24	13	25	38	31	20	22	27	83	35	48	17	47	5	42	53	60	16	44	40		
Northern Africa	1990	120 675	49	91	6	0	3	55	4	12	29	72	5	6	17	94	86	8	6	78	33	45	22	86	58	28	14	47 100	
	2000	144 621	51	93	6	0	1	72	5	6	17	83	6	2	9	94	89	5	6	83	51	32	17	89	70	19	11		
	2008	164 466	53	94	6	0	0	83	6	2	9	89	6	1	4	95	91	4	5	87	68	19	13	92	80	12	8		
Eastern Asia	1990	1 213 509	30	53	25	19	3	39	6	46	9	43	12	38	7	97	87	10	3	56	42	14	44	69	55	14	31	436 981	
	2000	1 345 739	38	58	28	9	5	47	7	40	6	51	15	29	5	98	92	6	2	70	59	11	30	81	71	10	19		
	2008	1 419 532	45	61	30	3	6	53	8	37	2	56	18	22	4	98	96	2	2	82	73	9	18	89	83	6	11		
Southern Asia	1990	1 200 043	26	56	18	3	23	13	3	3	81	25	7	2	66	91	55	36	9	69	9	60	31	75	21	54	25	547 433	
	2000	1 462 960	29	58	19	5	18	20	5	6	69	31	9	6	54	93	53	40	7	76	10	66	24	81	22	59	19		
	2008	1 668 746	31	57	19	10	14	26	6	10	58	36	10	10	44	95	51	44	5	83	11	72	17	87	23	64	13		
South Eastern Asia	1990	439 591	32	69	8	10	13	36	5	18	41	46	6	16	32	92	41	51	8	63	6	57	37	72	17	55	28	174 442	
	2000	517 193	40	74	9	7	10	49	7	15	29	59	8	12	21	92	47	45	8	72	11	61	28	80	26	54	20		
	2008	575 626	47	79	10	3	8	60	8	12	20	69	9	8	14	92	52	40	8	81	16	65	19	86	33	53	14		
Western Asia	1990	135 850	61	96	1	3	0	53	2	26	19	80	2	10	8	96	93	3	4	70	55	15	30	86	78	8	14	70 234	
	2000	174 394	65	93	6	1	0	60	4	21	15	82	5	7	6	96	93	4	4	74	54	20	26	88	79	9	12		
	2008	207 991	67	94	6	0	0	67	5	18	10	85	5	7	3	96	93	3	4	78	61	17	22	90	82	8	10		
Oceania	1990	6 449	24	85	6	15	0	46	0	37	17	55	0	45	14	92	67	25	8	38	7	31	62	51	22	29	49	1 506	
	2000	8 121	24	85	0	15	0	43	0	40	17	53	0	47	14	92	57	35	8	40	8	32	60	52	20	32	48		
	2008	9 633	23	81	0	19	0	45	0	37	18	53	0	47	14	92	57	35	8	37	6	31	63	50	19	31	50		
Latin America and the Caribbean	1990	442 310	71	81	0	13	6	39	6	12	43	69	0	14	17	95	87	8	5	63	36	27	37	85	72	13	15	161 513	
	2000	521 228	75	84	0	12	4	48	7	14	31	75	0	14	11	96	90	6	4	72	48	24	28	90	80	10	10		
	2008	576 102	79	86	0	12	2	55	9	16	20	80	0	14	6	97	92	5	3	80	58	22	20	93	84	9	7		
Commonwealth of independent states	1990	280 899	65	94	0	6	0	79	0	21	0	89	0	11	0	98	88	10	2	82	39	43	18	92	71	21	8	432	
	2000	280 998	64	93	0	7	0	80	0	20	0	89	0	11	0	98	89	9	2	84	37	47	16	93	71	22	7		
	2008	276 820	64	93	0	7	0	83	0	16	1	89	0	11	0	98	90	8	2	87	33	54	13	94	69	25	6		
Developed regions	1990	933 073	71	100	0	0	0	97	0	2	1	99	0	1	0	100	98	2	0	98	74	24	2	99	91	8	1	97 029	
	2000	985 273	74	100	0	0	0	96	0	0	0	99	0	1	0	100	98	2	0	98	77	21	2	100	93	7	0		
	2008	1 028 520	75	100	0	0	0	96	0	0	0	99	0	1	0	100	98	2	0	98	81	17	2	100	94	6	0		
Developing regions	1990	4 076 387	35	65	16	9	10	28	5	23	44	41	9	18	32	93	71	22	7	60	21	39	40	71	39	32	29	1 677 021	
	2000	4 848 948	40	67	18	7	8	35	7	20	38	48	11	15	26	94	72	22	6	69	27	42	31	79	45	34	21		
	2008	5 444 533	44	68	20	5	7	40	8	20	32	52	13	14	21	94	73	21	6	76	31	45	24	84	49	35	16		
WORLD	1990	5 290 359	43	77	11	6	6	36	5	20	39	54	7	14	25	95	80	15	5	64	27	37	36	77	50	27	23	1 774 482	
	2000	6 115 219	47	77	13	4	6	41	6	19	34	58	10	11	21	96	80	16	4	71	31	40	29	83	54	29	17		
	2008	6 749 872	50	76	15	4	5	45	8	18	29	61	11	11	17	96	79	17	4	78	34	44	22	87	57	30	13		

"NA" represents data not applicable, and "—" represents data not available at the time of publication.

* Shown as NA because of negative gain in access as a result of negative population growth.

ANNEX A

MILLENNIUM DEVELOPMENT GOALS:

REGIONAL GROUPINGS

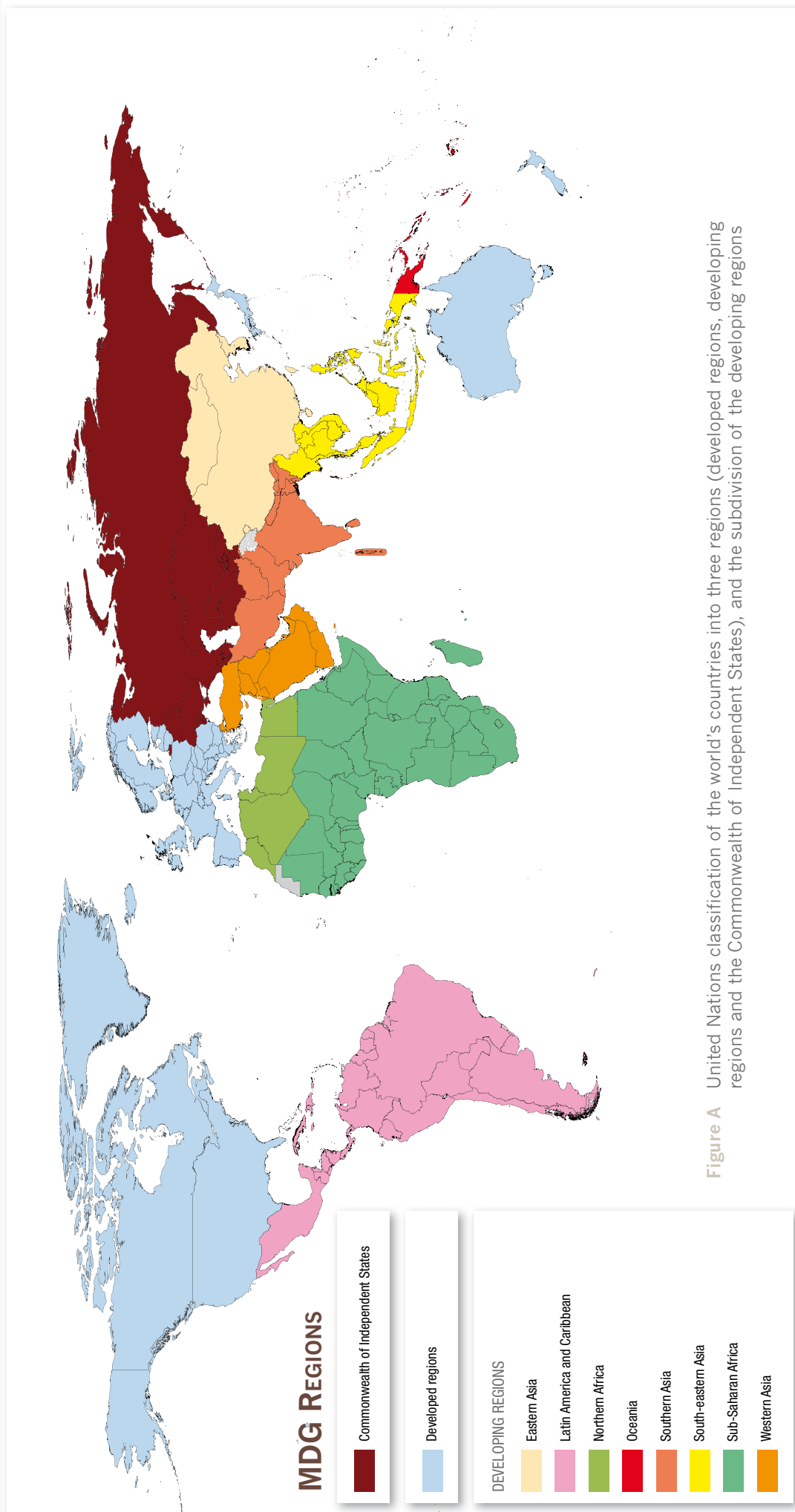


Figure A United Nations classification of the world's countries into three regions (developed regions, developing regions and the Commonwealth of Independent States), and the subdivision of the developing regions

ANNEX B

GLOBAL AND REGIONAL SANITATION LADDERS: URBAN AND RURAL

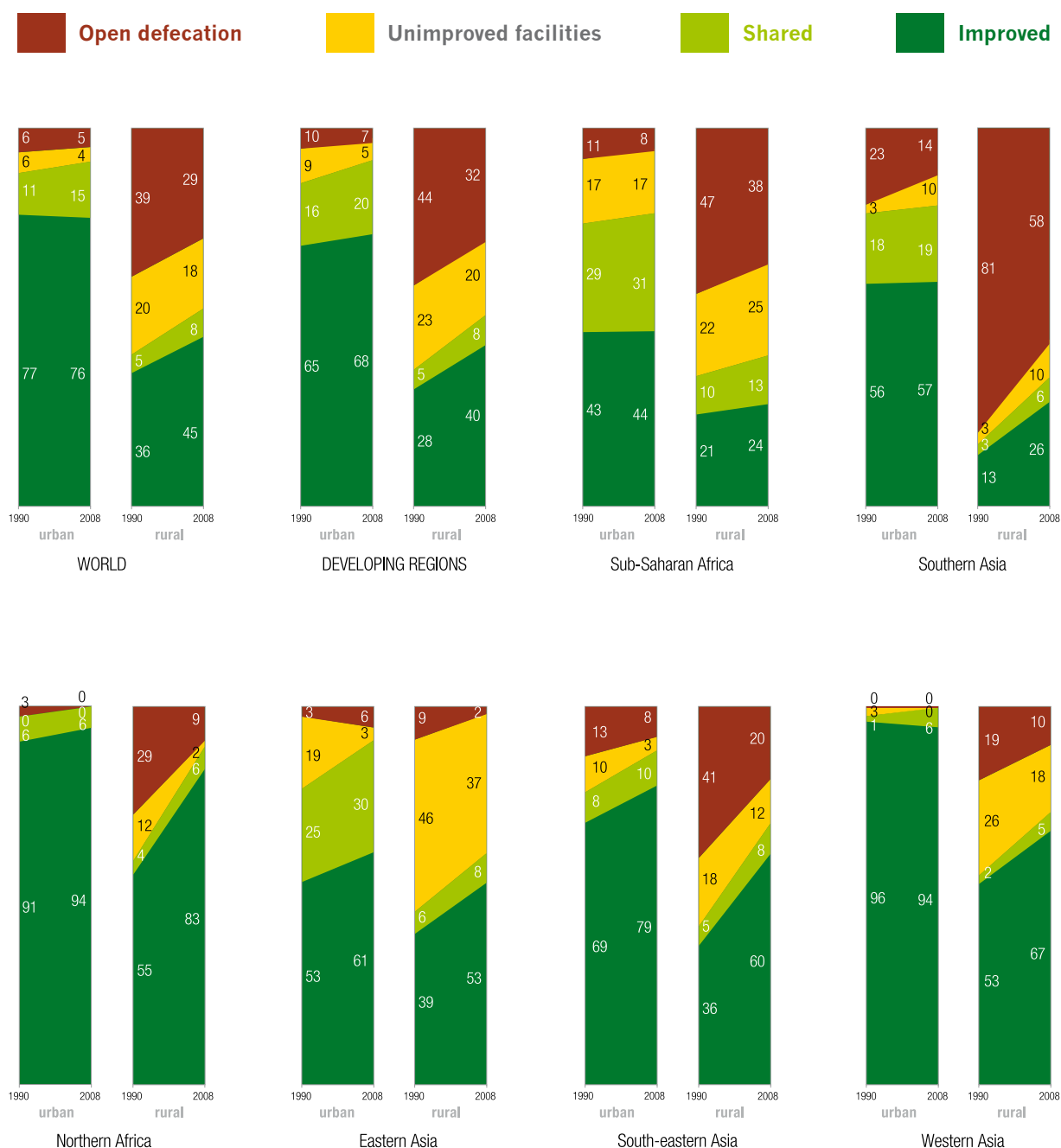


Figure B Urban and rural proportion of the population using an improved, shared or unimproved sanitation facility or practising Open defecation, by MDG region, in 1990 and 2008

ANNEX C

GLOBAL AND REGIONAL DRINKING-WATER LADDERS: URBAN AND RURAL

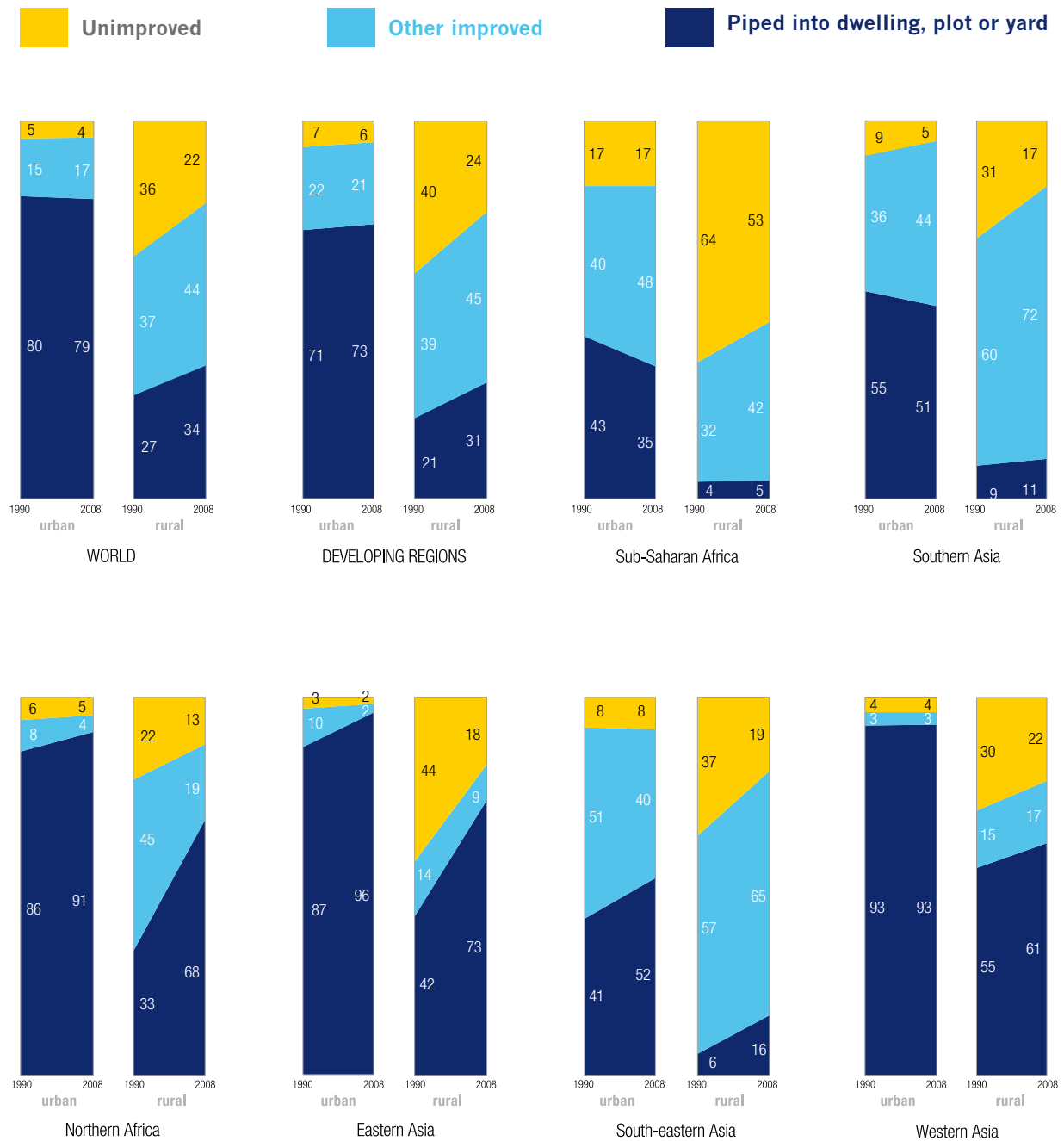


Figure C Urban and rural proportion of the population using a piped water connection, other improved drinking-water sources or an unimproved source, by MDG region, in 1990 and 2008

WITH ONLY FIVE YEARS TO GO UNTIL THE MDG TARGET DATE

2.6 billion people do not use improved sanitation

- Although 1.3 billion people have gained access to improved sanitation since 1990, the world is likely to miss the MDG sanitation target by a billion people.
- Open defecation rates have decreased from 25% in 1990 to 17% in 2008. Worldwide, 1.1 billion people practise open defecation, a decline of 167 million since 1990.
- With only 45% of the rural population using improved sanitation, rural areas lag far behind urban areas, where the rate is 76%.
- Seven out of ten people without improved sanitation live in rural areas, but the number of people in urban areas without improved sanitation is increasing because of rapid growth in urban populations.

884 million people do not use an improved source of drinking-water

- The world is on track to meet the MDG drinking-water target. In developing regions, 84% of the population uses an improved source of drinking-water.
- In urban areas the use of improved sources of drinking-water has been maintained at 96% since 2000, with over 1 billion more people now using such a source than in 1990. However, this increase is barely keeping up with urban population growth.
- The number of people living in rural areas who do not use an improved source of drinking-water is over five times the number living in urban areas.
- Worldwide, 37% of people not using an improved source of drinking-water live in Sub-Saharan Africa.

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